Service Manual

Digital Video Camcorder

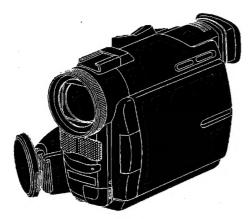
Digital Palmcorder®

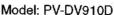
Mini DY

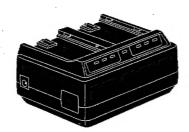
DIGITAL 6

PalmSight™

PV-DV910 PV-DAC9







Model: PV-DAC9-A

SPECIFICATIONS

ITEM	SPECIFICATION	ITEM	SPECIFICATION	
Power 7.8V DC (AC Adaptor)	Viewfinder	0.45 inch (11.4 mm) Liquid Crystal Color Electronic Viewfinder		
Source	AC Adaptor: 110/120/220/240V AC, 50/60 Hz Battery: Lithium-Ion Type DC 7.2V	LCD Monitor	3 inch (76.2 mm) Liquid Crystal Display	
Power Consumption	Digital Video Camera: 7.2V DC 7W (Max. 10W) AC Adaptor: 18W	Minimum Illumination Required	5 lx (F1:1.6) 0.5 footcandles	
	1W (when not in use.)	Operating	32°F ~ 104°F (0°C ~ 40°C)	
Video Signal	EIA Standard (525 lines, 60 fields) NTSC color signal	Temperature		
Video Recording System	2 rotary heads. helical scanning system	Operating Humidity	10% ~ 75%	
Audio	12 bit (32 kHz) 4 tracks 16 bit (48 kHz) 2 tracks	Weight	Digital Video Camera: 1.4 lbs. 0.66 kg	
Pick-Up System and Device	One integral color filter Charge Coupled Device (CCD)		AC Adaptor: 0.53 lbs. 0.24 kg	
Lens	18:1 zoom lens, F1:1.6 with auto iris control Focal length: 3.9 mm - 70.2 mm Power zoom function Lens filter diameter: 43 mm	Dimensions	Digital Video Camera: 2-15/16 (W) x 4-1/4 (H) x 5-11/16 (D) inch 73.5 (W) x 107.5 (H) x 145 (D) mm AC Adaptor: 4-1/16 (W) x 2 (H) x 3-1/8 (D) inch 103 (W) x 50 (H) x 79 (D) mm	

Weight and dimensions shown are approximate. Designs and specifications are subject to change without notice.

Panasonic®

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by \triangle in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

- An Isolation Transformer should always be used during the servicing of AC Adaptor whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect AC Adaptor from being damaged by accidental shorting that may occur during servicing.
- When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M ohm and 5.2M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinity.

LEAKAGE CURRENT HOT CHECK (See figure 1.)

- Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- Connect a 1.5k ohm, 10 watts resistor, in parallel with a 0.15 micro farad capacitor, between each exposed metallic part on the set and a good earth ground, as shown in figure 1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

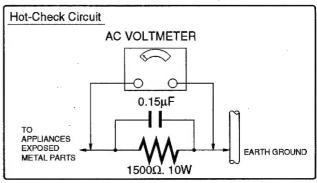


Figure. 1

PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

- Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- Use only an antistatic solder removal device. Some solder removal devices not classified as "antistatic (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

 Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

SERVICE NOTES

EXTENSION CABLES FOR SERVICE

Use the following Extension Cables when checking and servicing the unit.

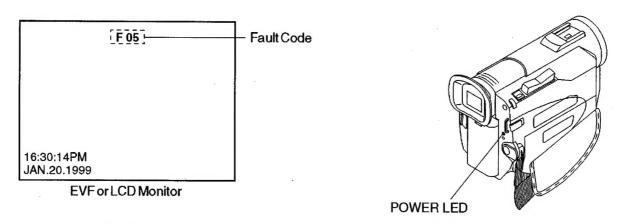
- Note: 1. When unplugging or plugging in connectors use extreme caution.
 2. Use a grounded ESD wrist strap while disassembling the camera portion.
 3. Adjust the DC Power supply to 7.0V DC and set the current limit to 2,0A.

NO. PART NO.	DADT NAME	COMPONIO
(1) LSUA0014	PART NAME 120Pin Extension Cable	CONNECTION B2 on the Main C.B.A. ~ B4 on the Camera C.B.A.
② LSUA0019	8Pin Extension Cable	FP4 on the Main C.B.A. ~ Loading Motor Flexible Cable on Mechanism Chassis Unit
(3) LSUA0015	5Pin Extension Cable	FP6 on the Main C.B.A. ~ Cassette Down SW Flexible Cable on Mechanism Chassis Unit
(4) LSUA0017	18Pin Extension Cable	FP1 on the Main C.B.A. ~ Cassette Down SW Flexible Cable on Mechanism Chassis Unit
(5) LSUA0017	18Pin Extension Cable	FP2 on the Main C.B.A. ~ Mechanism Sensor Flexible Cable on Mechanism Chassis Unit
6 LSUA0016	10Pin Extension Cable	
7 LSUA0018	24Pin Extension Cable	FP3 on the Main C.B.A. ~ Cylinder Flexible Cable on Mechanism Chassis Unit
8 VEQW0285	Zoom Switch Unit	FP5 on the Main C.B.A. ~ Head Amp Flexible Cable on Mechanism Chassis Unit
9 VEQW0286	Top Operation Unit	FP7 on the Main C.B.A. ~ Zoom Switch Unit
Lens Unit	Front C.B.A.	Zoom Switch Unit ~ Top Operation Unit
FP301 Camera C.B.A.	FP701 B4501 Note VJBV	Note 2 LCD Reverse SW Tape W1646F
		Note 1 VJBW1647F
EVF Drive C.B.A. EVF Backlight C.B.A. DC Power Supply +7.0VDC (currentlimit: 2.0A)	P901 FP9 FP7 Rear C.B.A.	FP10 Main C.B.A. Cassette Down SW Flexible Cable Mechanism Sensor Flexible Cable Capstan Flexible Cable Capstan Flexible Cable Capstan Flexible Cable VCR Operation Unit Head Amp Flexible Head Amp
Note 1: When connecting FP10 FP11, connect the VJBV (long flexible cable) to F VJBW1647F (short flexi FP11. If this connection LCD 15V Line and GND following illustration to c	V1646F P10 and the ble cable) to is done in reverse, the	Note 3:

Fig. 1

SIMPLIFIED FAULT FINDING DATA (SELF-DIAGNOSTIC SYSTEM)

When following conditions occur, the fault code will be displayed on the EVF or LCD Monitor. Also, the Power LED will flash according to the fault code as follows.



FAULT CODE	CONDITION	POWER LED FLASHING TIMING & POWER OFF TIMING
F01	T-Reel Lock	After 1 minute flash, power will be turned off. T = 2.56 sec 0.16 sec
F02	S-Reel Lock	After 1 minute flash, power will be turned off.
F03	Unloading Lock	After 1 minute flash, power will be turned off.
F04	Loading Lock	After 1 minute flash, power will be turned off.
F05	Cylinder Lock	After 1 minute flash, power will be turned off.
F31	Data Transmission Error	
F51	Focus Motor Lock	Power LED flashes at 1 Hz timing.
F52	Zoom Motor Lock	Power LED flashes at 1 Hz timing.
U10	Dew Detection	After 18 seconds flash at 1 Hz timing, power will be turned off.
U11	Head Clogging	

Fig. 2

Note: Fault Code (F01 ~ F05, U10) will be displayed again with power SW OFF and ON while the Battery remains. (Once the Battery is removed or dead, fault code will not be memorized.)

HOW TO REMOVE A JAMMED TAPE

CAUTION:

If loading does not start after DC Power Supply is applied, DO NOT continue to applying DC Power Supply.

- (1) Remove the Cabinet Parts as shown in the "Disassembly/ Assembly Procedures of Cabinet."
- (2) Apply +2VDC Power Supply (DC+ to Portion "A", DC- to Portion "B"). When the Loading Posts reach the fully unloaded position, remove the Power Supply.

Note: If the Cassette Up Unit is ejected completely, the DV Cassette Tape may be damaged.

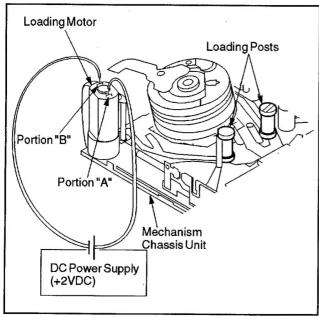


Fig. 3-1

(3) Rewind the tape into the DV Cassette Tape by turning the Capstan Rotor counterclockwise.

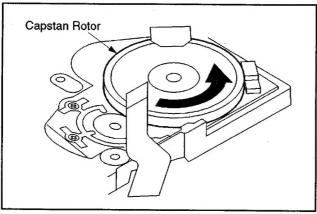


Fig. 3-2

- (4) Eject the DV Cassette Tape by applying +2VDC Power Supply again.
- (5) Remove the DV Cassette Tape from the Cassette Up Unit.

MAIN/CAMERA C.B.A.

Main/Camera C.B.A. consists of Main and Camera C.B.A.s. When servicing, replace both C.B.A.s at the same time.

Note:

When replacing the Main and Camera C.B.A.s, confirm that both Serial Numbers are the same.

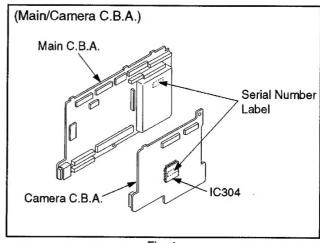


Fig. 4

SHORT JIG C.B.A.

CAUTION:

Be sure to attach the Short JIG C.B.A. to protect the microcontroller (IC2001) after servicing.

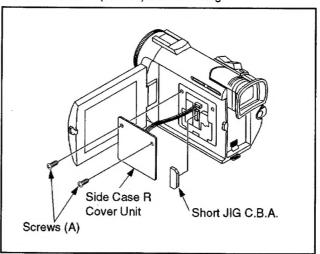
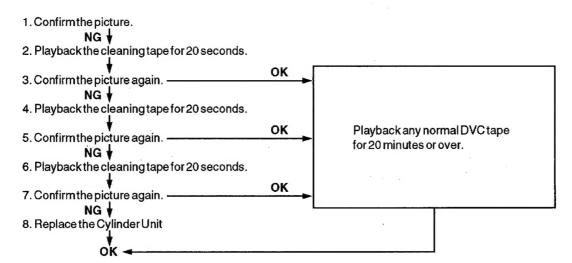


Fig. 5

HOW TO USE THE DVC HEAD CLEANING TAPE / LSUQ0003

Please use the cleaning tape as described below.

Note: This cleaning tape has a total playback time of 45 minutes. Once used, it is not reusable.



The picture will look like this in case of clogged video head.

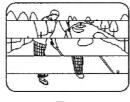


Fig. 6

HOW TO REPLACE THE LAMP (VLLW0023) OF ENHANCEMENT LIGHT UNIT

DANGER:

To prevent possible burn hazard, disconnect this unit and allow lamp to cool before replacing. Replace only with VLLW0023 lamp, to reduce the risk of fire.

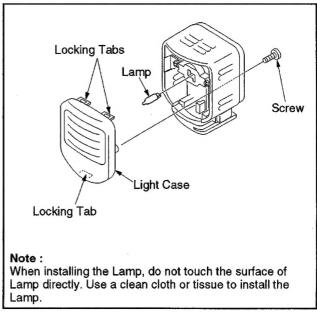


Fig. 7

REPLACEMENT PROCEDURE FOR LEADLESS (CHIP) COMPONENT

The following procedures are recommended for the replacement of the leadless components used in this Unit.

- 1. Preparation for replacement
 - Soldering Iron
 Use a pencil-type soldering iron using less than 30 watts
 - Solder Eutectic Solder (Tin 63%, Lead 37%) is recommended.
 - c. Soldering time
 Do not apply heat for more than 4 seconds.

 d. Preheating
 Leadless capacitor must be preheated before

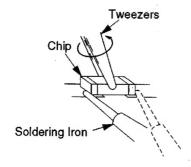
installation.
(130°C ~ 150°C, for about two minutes.)

Note:

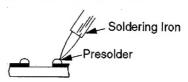
- Leadless component must not be reused after removal.
- Excessive mechanical stress and rubbing of the component electrode must be avoided.
- Removing the leadless component
 Grasp the leadless component body with tweezers and
 alternately apply heat to both electrodes. When the
 solder on both electrodes is melted, remove leadless
 component with a twisting motion.

Note:

- a. Do not attempt to lift the component off the board until the component is completely disconnected from the board by a twisting action. The leadless component is attached to the PCB with glue. So carefully twist the component when removing it so as not to break or damage any fail under the component.
- Take care not to break the copper foil on the printed board.

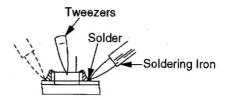


- 3. Installation of the leadless component
 - a. Presolder the contact points of the circuit board.
 - Press the part downward with tweezers and solder both electrodes as shown below.



Note:

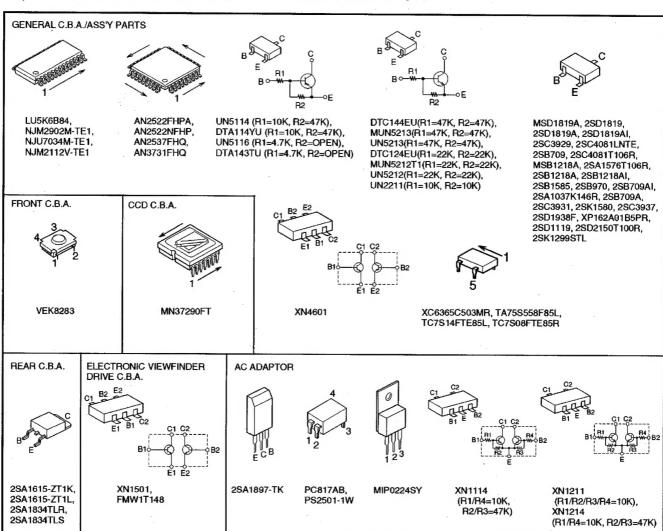
Do not glue the replacement leadless component to the circuit board.



SPECIAL NOTE

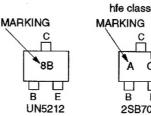
All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handlings techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

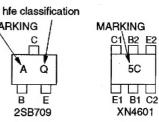
IC, TRANSISTOR AND CHIP PART INFORMATION



HOW TO READ THE IDENTIFICATION MARK OF CHIP COMPONENTS.

OTHE COME CITETION				
MARKING	PART NO.	MARKING	PART NO.	
Α	2SB709	9H	XN1214	
В	2SB709A	Z	2SD1819A	
6D	UN5114	Υ	2SD1819	
6F	UN5116	В	2SB1218A	
8C	UN5213	1R	2SB970	
8B	UN5212	U	2SC3931	
5R	XN1501	2W	2SC3937	
5C	XN4601	S	2SC3929	
7Q	XN1114	1R	2SB1585	
9K	XN1211	T	2SD1119	
8 A	UN2211	MC	MA143	
MO	MA142WA	1B	MA111	
8C	MUN5213	2A	MA728	
AG1	SSB14-LT	A61 ·	MA720	





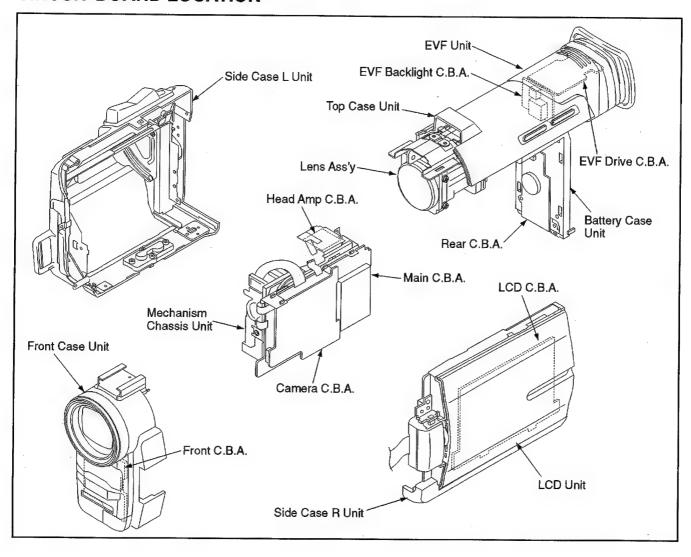
SERVICE FIXTURES & TOOLS

49% Transmission Ta	ape VFK1217	Color Bar Standard	VFM3010EHS	Color Bar Chart	VFK1164TFCB2
		Tape (Keeping condition: Kee	p at 18°C ~ 28°C)		
					"
No.					
DVC Head Cleaning Tape	LSUQ0003	Reel FG Adjustment C (Refer to page 3-3 " Ho the Reel FG Adj. Cass	assette ow to make sette".)	Extension Cable 120P	LSUA0014
		A PORTOR OF THE PROPERTY OF TH			
Extension Cable 5P	LSUA0015	Extension Cable 10P	LSUA0016	Extension Cable 18P	LSUA0017
Extension Cable 24P	LSUA0018	Extension Cable 8P	LSUA0019	Zoom Switch Unit	VEQW0285
To a Constant Hair	VEOW0000	<i>≫</i>	VFK1395		
Top Operation Unit	VEQW0286	Inter Link Cable	VFK1333	Camera Connecting C	able VFK1309 VFK1317
	<i>^</i>		→		
		V			/FK1317
	?		<u> </u>		TK1517
White Chart	VFK1164TFWC2			VFK1309	
					, [
	"				
	/				

Light Box VFKS002Y and AC Adaptor	Infinity Lens VFK1164TCM (with Focus Chart)	02 43mm Ring VFK1164TAR43
AC Adaptor for C-Movie can be used. (DC +6V) Either plug can be used. (AC Adaptor is not supplied)	Interface Board for Electrical Adjustment VFK1308E	Color Conversion VFK1164TFCT2 Filter (C14)

DISASSEMBLY/ASSEMBLY PROCEDURES

CIRCUIT BOARD LOCATION



DISASSEMBLY/ASSEMBLY PROCEDURES OF CABINET

DISASSEMBLY FLOW CHART

This flow chart indicates the disassembly steps of the cabinet parts and the P.C.Boards in order to gain access to item (s) to be serviced. When reassembling, perform the step (s) in the reverse order. Bend, route and dress the wires as they were originally.

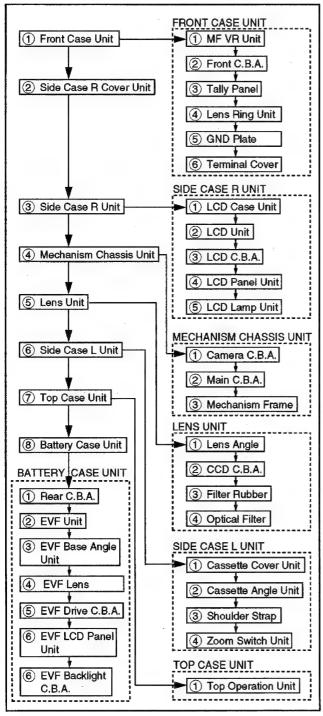


Fig. D1

DISASSEMBLY METHOD

D.07	DIOAGGEMBET METTIOD			
STEP /LOC. No.	PART	Fig. No.	REMOVE	
1	Front Case Unit	D2	(S-1), 4(S-2), Left Cover, Connector B4501, Connector B4801	
2	Side Case R Cover Unit	D3	2(S-3), 2(L-1) Connector FP8	
3	Side Case R Unit	D4	8(S-4), Connector FP10, FP11	
4	Mechanism Chassis Unit	D5	(S-5), 3(S-6), 4(S-7), 2(L-2) Main Frame Unit Connector FP301, FP701, FP7, FP9, B1, B1101	
(5)	Lens Unit	D6	3(L-3)	
6	Side Case L Unit	D7	2(S-8), (S-9), (S-10), Top Operation Flexible Cable, Zoom Switch Flexible Cable, Hole of CCD Barrier, Battery Eject Knob	
7	Top Case Unit	D8	(S-11), Light FPC, CCD Barrier, Groove of Battery Case Unit, Guide of Top Case Unit, Connector FP1101	
8	Battery Case Unit	D8		
† A	B	C	† D	

How to read chart shown above:

- A: Order of steps in Procedure
 When reassembling, perform the step(s) in the reverse
 order. These numbers are also used as the identification
 (location) No. of parts in Figures.
- B: Part to be removed or installed.
- C: Fig. No. showing Procedure or Part Location.
- D: Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped, or unsoldered.
 4(S-2)=4 Screws (S-2), 2(L-1)=2 Locking Tabs (L-1)

Note:

- a. When removing the cabinet, work with care so as not to break the Locking Portions.
- Place a cloth or some other soft material under the P.C. Boards or Unit to prevent damage.
- When reinstalling, ensure that the connectors are connected and electrical components have not been damaged.
- d. Do not supply power to the Unit during disassembly.
- Use a wrist strap to provide ESD protection while disassembling or assembling, and while operating the Unit disassembled.

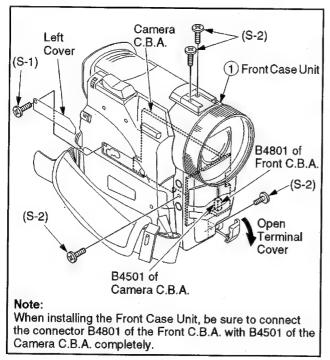


Fig. D2

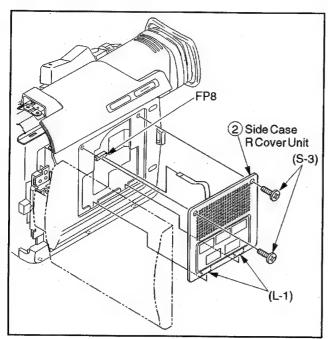


Fig. D3

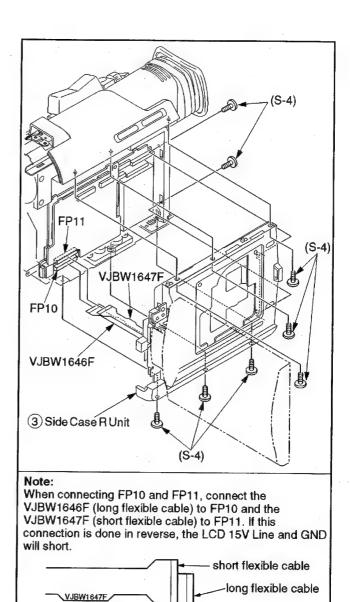


Fig. D4

VJBW1646F

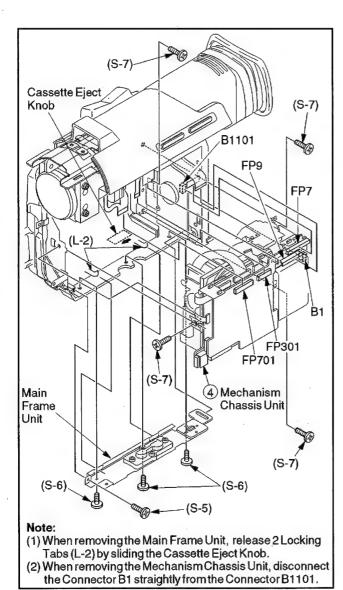


Fig. D5

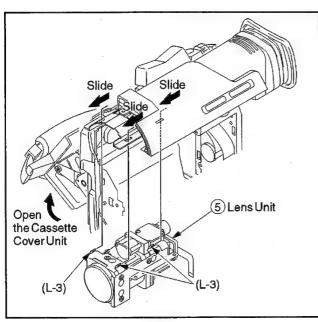


Fig. D6

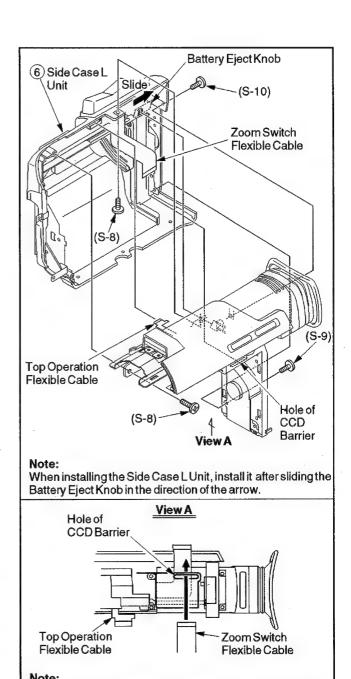


Fig. D7

The Zoom Switch Flexible Cable passes through the Hole

of CCD Barrier as shown.

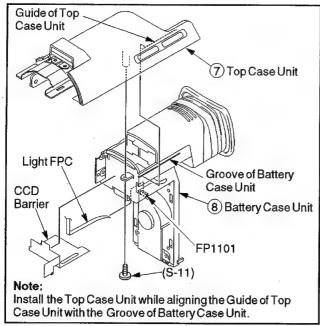
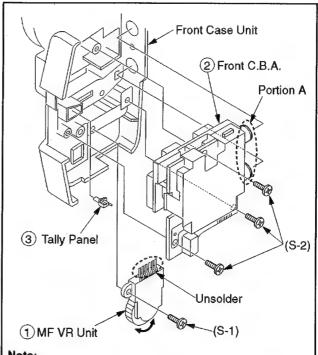


Fig. D8



STEP /LOC. No.	PART	Fig. No.	REMOVE
1	MF VR Unit	D9	(S-1), Unsolder
2	Front C.B.A.	D9	3(S-2)
3	Tally Panel	D9	
4	Lens Ring Unit	D10	
(5)	GND Plate	D10	(S-3)
6	Terminal Cover	D10	Hinge



Note:

- (1) When installing the Front C.B.A., install Portion A of the Front C.B.A. first.
- (2) After installing the MF VR Unit, confirm that the MF VR Unit can rotate smoothly without touching the Front Case Unit.

Fig. D9

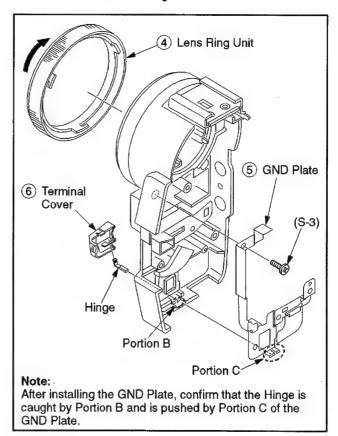


Fig. D10

SIDE CASE R UNIT PORTION

STEP /LOC. No.	PART	Fig. No.	REMOVE	
1	LCD Case Unit	D11	(S-1), 4(S-2), 2(L-1), Shield Plate, Side Case R	
2	LCD Unit	D12	2(S-3), (S-4), (S-5), (S-6), (S-7), 8(L-2), 2(L-3) LCD Case A Unit, LCD Shield Case, LCD Shaft Unit, LCD Case B, Connector FP8001, FP8002, FP8003	
3	LCD C.B.A.	D13-1	Lead Light Panel Unit, Connector FP8004, Unsolder	
4	LCD Panel Unit	D13-1	8(L-4)	
5	LCD Lamp Unit	D13-2	3(L-5), LCD Sheet Unit, LCD Reflect Sheet, Lead Light Panel	

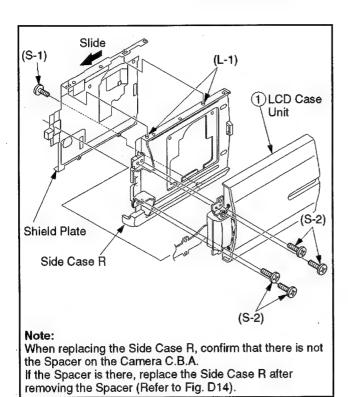
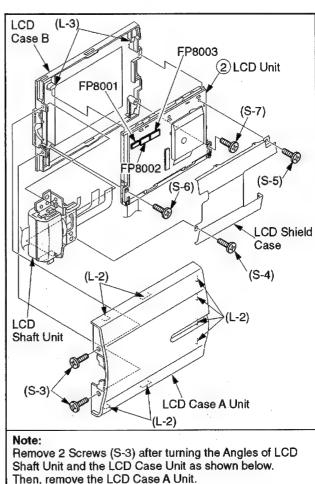


Fig. D11



Then, remove the LCD Case A Unit.

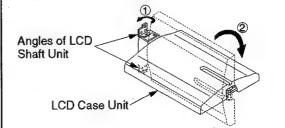
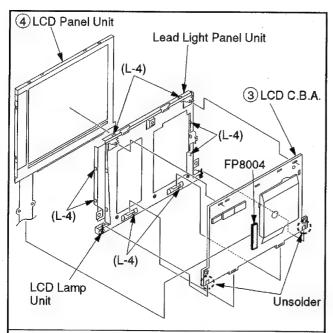
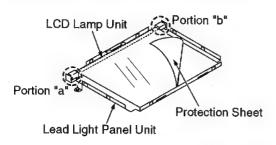


Fig. D12



Note:

- (1) When replacing the Lead Light Panel Unit, make sure to remove Protection Sheet as shown below.
- (2) Use extreme care when handling the Lead Light Panel Unit and the LCD Panel Unit to avoid damage, dust, and spots (especially fingerprints, etc.). The use of clean cotton gloves when available is highly recommended.
- (3) Be careful not to apply any pressure to Portion "a" and "b" of the LCD Lamp Unit as shown below.



(4) After replacing the Lead Light Panel Unit, confirm that the Terminal of LCD Lamp Unit is soldered correctly as shown below.

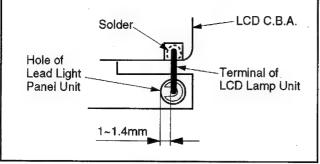
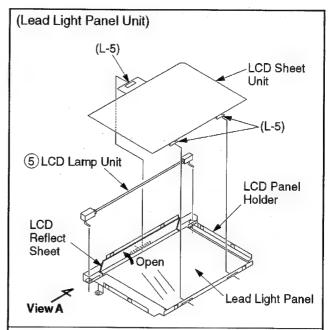


Fig. D13-1



Note

- (1) When installing the LCD Lamp Unit, confirm that the LCD Lamp Unit is positioned as shown below.
- (2) Use extreme care when handling the Lead Light Panel and the LCD Sheet Unit to avoid damage, dust, and spots (especially fingerprints, etc.).

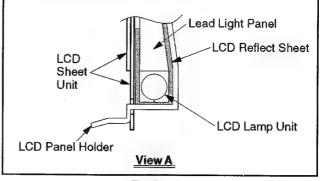


Fig. D13-2

MECHANISM CHASSIS UNIT PORTION

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	Camera C.B.A.	D14	Connector B4
2	Main C.B.A.	D14	(S-1), Connector FP1, FP2, FP3, FP4, FP5, FP6
3	Mechanism Frame	D14	3(S-2), (S-3)

Mechanism Chassis Unit (S-3) (S-3) (S-2) FP2 FP3 (S-2) FP4 (S-1) (S-1)

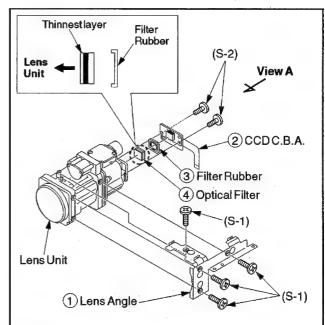
Note:

- (1) When installing the Mechanism Chassis Unit, confirm that the Mechanism Chassis Unit is in the Loading Position.
- (2) After replacing the Mechanism Chassis Unit, confirm Tape Path Alignment with L.I.S.T.A. If adjustment is necessary, perform Envelope Adjustment.
- (3) The Spacer will be deleted after a projection is added onto the Side Case R on running change basis.

Fig. D14

LENS UNIT PORTION

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	Lens Angle	D15	4(S-1)
2	CCD C.B.A.	D15	2(S-2)
3	Filter Rubber	D15	and the latest and the
4	Optical Filter	D15	de popularies



Note:

- a. Before reinstalling, clean the Optical Filter with Lens Cleaning materials.
- b. If the Optical Filter is removed from the front of the CCD C.B.A., replace it with the thinnest layer of the filter facing toward the Lens Unit.

Note:

When installing the CCD C.B.A., tighten 2 Screws (S-2) while keeping the CCD C.B.A. pressed in the direction of the arrow as shown.

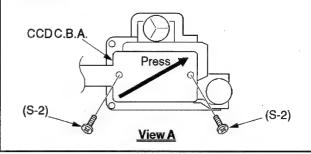


Fig. D15

SIDE CASE L UNIT PORTION

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	Cassette Cover Unit	D16	4(S-1)
2	Cassette Angle Unit	D17	7(S-3)
3	Shoulder Strap	D16 D17	2(S-2), Strap Angle
4	Zoom Switch Unit	D17	4(S-4)

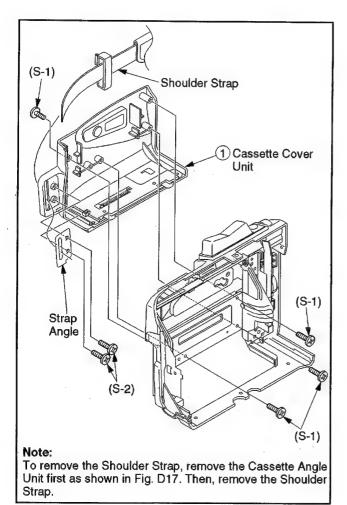


Fig. D16

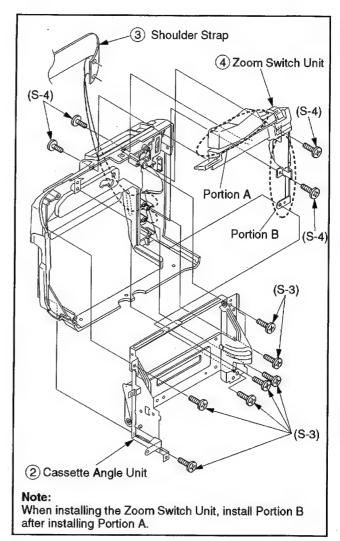


Fig. D17

TOP CASE UNIT PORTION

STEP /LOC. No.	PART	Fig. No.	REMOVE	
1	1) Top Operation Unit		3(S-1), Top Case, Light Shoe Case, Top Operation Knob,	

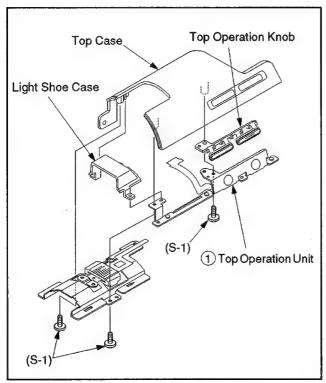


Fig. D18

BATTERY CASE UNIT PORTION

STEP /LOC. No.	PART	Fig. No.	REMOVE	
1	Rear C.B.A.	D19	2(L-1)	
2	EVF Unit	D19	(S-1), (S-2), (L-2), EVF ESD Angle, Battery Eject Piece, Battery Eject Spring	
3	EVF Base Angle Unit	D20	2(S-3), 2(S-4), (L-3), EVF Case B	
4	EVF Lens	D21	2(L-4), 2(L-5), 2(L-6), Eye Cap, Eye Cap Holder, Lens Holder, Eye Sight Knob	
(5)	EVF Drive C.B.A.	D22 D23	2(S-5), (S-6), EVF Case A, EVF Fixing Angle A, Spacer, Connector FP902, B901	
6	EVF LCD Panel Unit	D23	4(L-7), 2(L-8), EVF Protect A, EVF Protect B, EVF Rubber, EVF LCD Holder, Polarizer	
7	EVF Backlight C.B.A.	D23		

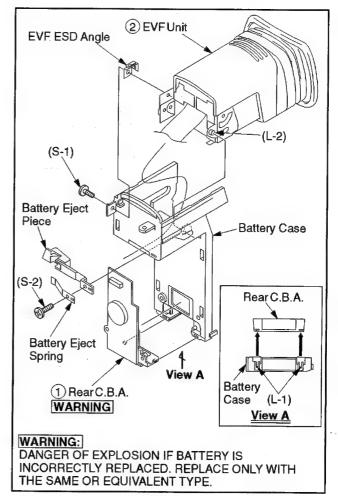


Fig. D19

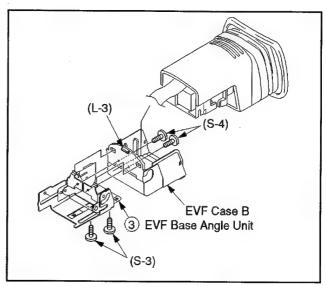


Fig. D20

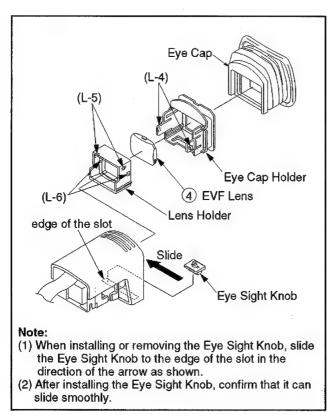


Fig. D21

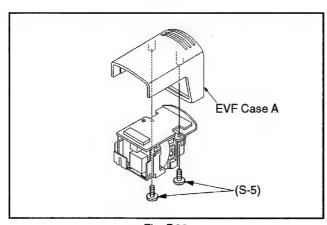


Fig. D22

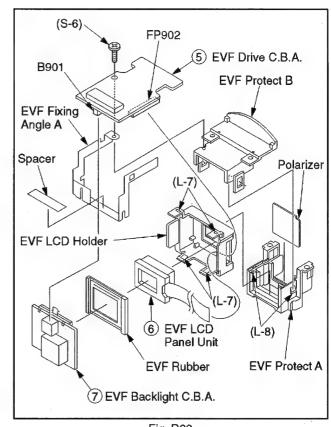


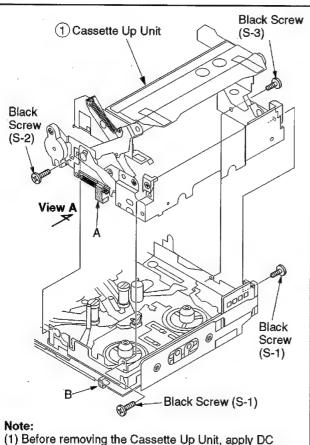
Fig. D23

DISASSEMBLY/ASSEMBLY PROCEDURES OF MECHANISM

This procedure starts with the condition that the cabinet parts, Main C.B.A. have been removed. When reassembling, perform the step(s) in the reverse order.

DISASSEMBLY METHOD

STEP /LOC. No.	PART	Fig. No.	REMOVE	
1	Cassette Up Unit	DM1-1 DM1-2	2(S-1), (S-2), (S-3)	
2	Head Amp C.B.A.	DM2	(S-4), (S-5), Shield Case, Connector FP5001	
3	Cylinder	DM2	3(S-6), Cylinder Spring	



- (1) Before removing the Cassette Up Unit, apply DC Voltage of 2.0V DC to the Loading Motor to be the Mechanism Chassis Unit in the Eject Position. (refer to page 1-4)
- (2) After installing the Mechanism Chassis Unit, confirm that the Mechanism Chassis Unit is in the Loading Position or in the Eject Position by applying DC Voltage of 2.0V DC to the Loading Motor.

Fig. DM1-1

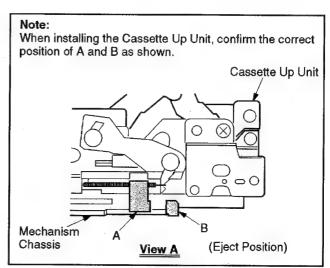


Fig. DM1-2

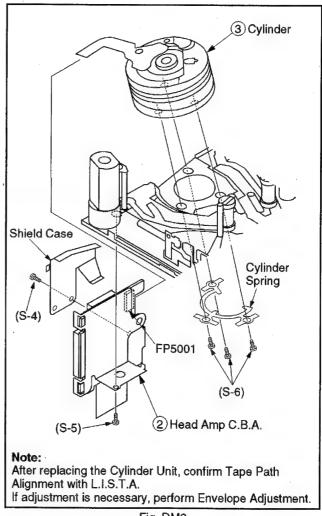


Fig. DM2

ADJUSTMENT PROCEDURES

ELECTRICAL ADJUSTMENT EEPROM DATA

There are two EEPROM in this unit. EEPROM

C.B.A.s	EEPROM IC Ref. No.		
Camera C.B.A.	IC303		
Main C.B.A.	IC2005		

1. How to save the EEPROM data

Be sure to save both EEPROM data before service and adjustment in order to make sure to avoid an accidental data loss as follows.

1-1. How to save the EEPROM data for Camera Circuit

- Select "1. Check [Camera]." in Main menu, and then press "Enter" key.
- Select "3. Read [Save]/Write All EEPROM datas" in Camera check menu, and then press "Enter" key.
- Select "5. Save all data of EEPROM" in Read [Save]/ Write All EEPROM datas menu, and then press "Enter" key.
- Input the File name and, then press the "Enter" key. The data of EEPROM (IC303) will be stored to the PC.

1-2. How to save the EEPROM data for Video Circuit

- Select "2. Check [Video]." in Main menu, and then press "Enter" key.
- Select "3. Read [Save]/Write All EEPROM datas" in Video check menu, and then press "Enter" key.
- Select "2. Save all EEPROM data" in Read [Save]/Write All EEPROM datas menu, and then press "Enter" key.
- 4) Input the File name, and then press "Enter" key. The data of EEPROM (IC2005) will be stored to the PC.

2. How to rewrite the saved data to EEPROM

When it becomes impossible to adjust during service and adjustment, rewrite the saved data which stored in 1-1, 1-2 to EEPROM as follows. And readjust.

2-1. How to rewrite the saved data of Camera circuit

- Select "1. Check [Camera]." in Main menu, and then press "Enter" key.
- Select "3. Read [Save]/Write All EEPROM datas" in Camera check menu, and then press "Enter" key.
 Select "6. Data write using stored file" in Read [Save]/
- Select "6. Data write using stored file" in Read [Save]/ Write All EEPROM datas menu, and then press "Enter" key.
- 4) Input the saved file name, and then press "Enter" key.
- 5) The data will be written in EEPROM (IC303).

2-2. How to rewrite the saved data of Video circuit

- Select "2. Check [Video]." in Main menu, and then press "Enter" key.
- Select "3. Read [Save]/Write All EEPROM datas" in Video check menu, and then press "Enter" key.
- Select "3. Writing from stored data files" in Read [Save]/ Write All EEPROM datas menu, and then press "Enter" key.
- 4) Input the saved file name, and then press "Enter" key.
- 5) The data will be written in EEPROM (IC2005).

3. When replacing the Main/Camera C.B.A.

In case that the Main/Camera C.B.A. is replaced, be sure to write the data to EEPROM (IC303) on Camera C.B.A. and EEPROM (IC2005) on Main C.B.A. as follows.

- Select "1. Check [Camera]." in Main menu, and then press "Enter" kev.
- Select "3. Read [Save]/Write All EEPROM datas" in Camera check menu, and then press "Enter" key.
- Select "6. Data write using stored file" in Read [Save]/Write All EEPROM datas menu, and then press "Enter" key. Input the saved file name, and then press "Enter" key. OR;
 - Select "7. Data write with average data," and then press "Enter" key. And press "Enter" key once again.
- Select "2. Check [Video]." in Main menu, and then press "Enter" key.
- Select "3. Read [Save]/Write All EEPROM datas" in Video check menu, and then press "Enter" key.
 Select "3. Writing from stored data files." in Read [Save]/
- Select "3. Writing from stored data files." in Read [Save]/ Write All EEPROM datas menu, and then press "Enter" key. Input the saved file name, and then press "Enter" key. OR;
 - Select "4. Writing of fixed/average values," and then press "Enter" key. And press "Enter" key once again. Then, input ID Number as follows.

4. How to input ID Number

The ID number is in the EEPROM.

There are two ways to write the data of EEPROM (IC2005) after replacing Main C.B.A. as follows:

- Selecting "3. Writing from stored data files," ID Number with stored data file will be written automatically.
- Selecting "4. Writing of fixed/average values," ID Number needs to be input. There are two methods, "a" or "b," to input ID Number as follows.

a When writing ID Number from the saved data which is stored in 1-2:

- Select "2. Check [Video]." in Main menu, and then press "Enter" key.
- Select "3. Read [Save]/Write All EEPROM datas" in Video check menu, and then press "Enter" key.
- Select "5. Writing ID from stored file." in Read [Save]/Write All EEPROM datas menu, and then press "Enter" key. Input the saved file name, and then press "Enter" key. ID Number will be written automatically.

b When the original ID information can not be read because of destruction of EEPROM etc:

- Select "4. Adjust [Video]." in Main menu, and then press "Enter" key.
- Select "9. Write products ID" in Video adjustment menu, and then press "Enter" key.
 ID Number will be written automatically.

Note:

The adjusted data has been written to EEPROM after each adjustments.

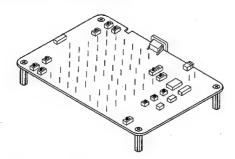
TEST EQUIPMENT

To do all of these electrical adjustments, the following equipments are required.

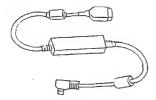
1. Panasonic Personal Computer



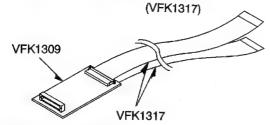
2. Interface Board (VFK1308E)



3. Inter Link Cable (VFK1395)



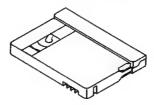
4. Camera Connecting Cable (VFK1309)



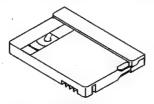
5. Jack Box (VSQW0042)



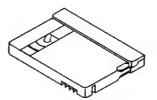
6. 49% Transmission Tape (VFK1217)



 Color Bar Standard Tape (VFM3010EHS) (Keeping condition: Keep at 18°C ~ 28°C)



 Reel FG Adjustment Cassette (Refer to "How to make the Reel FG Adjustment Cassette" on page 3-3.)



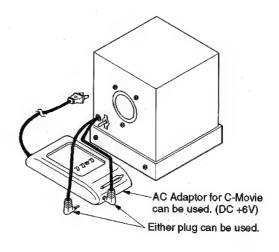
9. White Chart (VFK1164TFWC2)



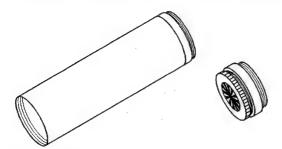
10. Color Bar Chart (VFK1164TFCB2)



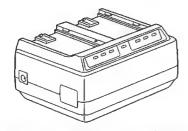
11. Light Box and AC Adaptor



12. Infinity Lens (with Focus Chart) (VFK1164TCM02)



13. AC Adaptor (for DVC)



14. 43mm Attachment Ring (VFK1164TAR43)



15. Color Conversion Filter (C14) (VFK1164TFCT2)



16. Dual-Trace Oscilloscope

Voltage Range Frequency Range 0.001 to 50V/Div. DC to 100MHz

Probes

: 10:1, 1:1

17. DVM(Dihital Volt Meter)

Voltage Range

; 0.01 to 50V

18. Frequency Counter

Frequency Range

: 0 to 150MHz

19. Vectorscope

How to make the Reel FG Adjustment Cassette

1) Purchase a DV cassette tape locally.

2) Remove 4 Screws on the DV cassette tape.

3) Remove the Top Case.

4) Take out the Wheels with tape.

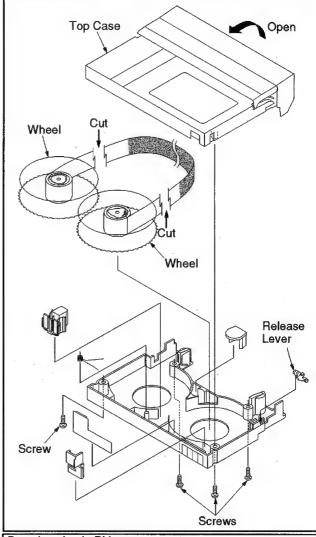
5) Undo the whole tape to cut the portions as shown.

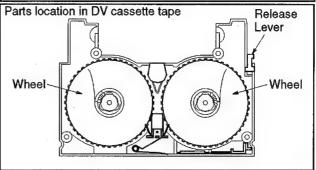
6) Reassemble the DV cassette tape.

Note: Reinstall the Top Case with its door opened.

Reassembly Note:

Be sure to install each part in the original position when parts are out of place as the DV cassette tape disassembled.





PREPARATION

1. Open the LCD panel.

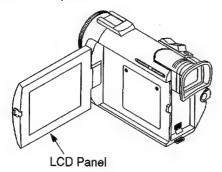


Fig. 1

Remove Screws (A) and the Side Case R Cover Unit from the unit. And remove the Short JIG C.B.A.

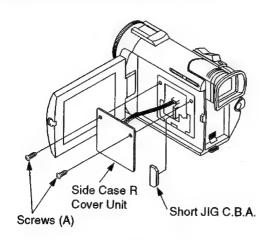


Fig. 2

Caution: Be sure to attach the Short JIG C.B.A. to protect the microcontroller (IC2001) after adjustment.

Connect the Camera Connecting Cable to P101 and P102 on the Interface Board.

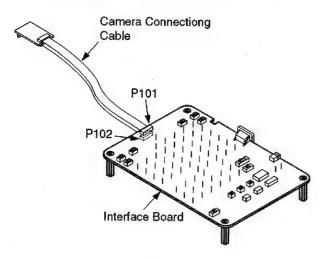


Fig. 3

4. Connect the Camera Connecting Cable to B3 on the unit.

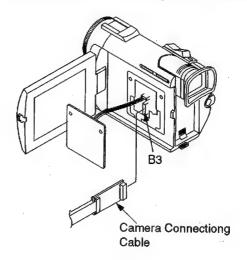


Fig. 4

5. Connect the Jack Box to the unit.

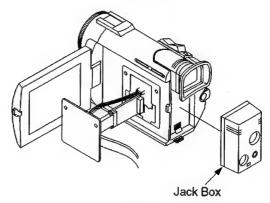


Fig. 5

- 6. Connect the AC Adaptor to the unit.
- Connect the P108 on the Interface Board to RS232C of the PC with Inter Link Cable.
- Set the SW115 (M103 EXMOD1) on the Interface Board to "GND."
- Set the SW110(RS232C SEL) on the Interface Board to "DSUB."
- 10. Set the SW114 (M103 VPP) on the Interface Board to "3V."
- 11. Set the SW103 (RECI) on the Interface Board to "OFF."
- When adjusting, Set the SW107 (VTR TEST) on the Interface Board to "ON."
 - When ejecting, inserting, recording, or palyback the DV cassette tape, be sure to set the SW107 to "OFF."
- 13. Set the SW108 (BST TEST) on the Interface Board to "OFF."
- 14. Set the SW109 (IRIS) on the Interface Board to center.
- 15. Set the SW111(SV SEL) on the Interface Board to "CAM 5V."
- 16. Set the SW113 (POWER ON) on the Interface Board to "NORM."
- 17. Power on the DVC.

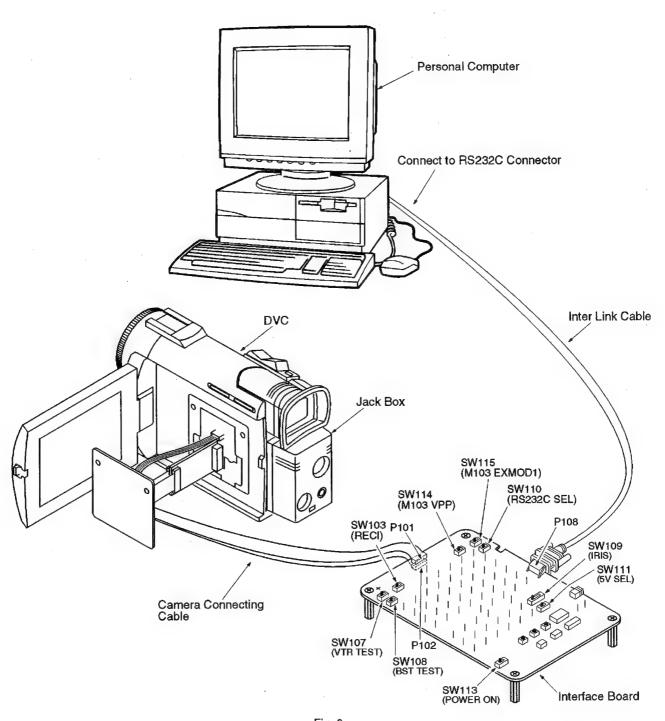


Fig. 6

SET UP THE MENU MODE

- 1. Turn on the Personal Computer power SW. Windows 95 will be set up automatically.
- 2. Restart it in MS-DOS mode.
- Change the current directory to the one including the adjustment program.
 - 1) Input "cd "as shown in Fig. 7-1. Then, press "ENTER" key.

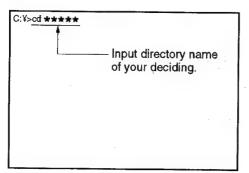


Fig. 7-1

2) When MS-DOS is Japanese mode, Input "us." Then, press "ENTER" key.

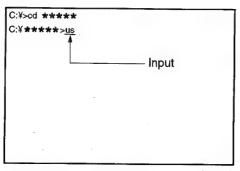


Fig. 7-2

 US mode is on. Then, input "ent" and press "ENTER" key.
 The starting display will be displayed.

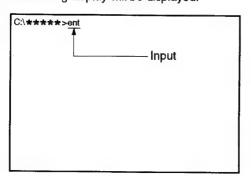


Fig. 7-3

4. Perform some set up items according to menu. Main menu will be displayed.

HOW TO USE MAIN MENU

Main Menu

Select a Sub Menu to check, adjust the unit etc. by pressing [Main Wenu. Then, press "ENTER" Key. The Sub Menu will be displayed.

Note:

Menu 4 through 7 are needed for adjustment.

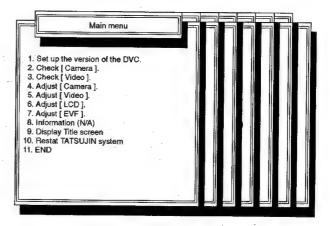


Fig. 8-1

With using es key, you can also see sub menu in order.

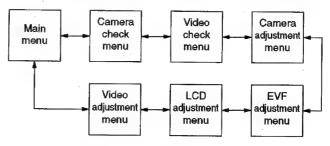


Fig. 8-2

SCHEMATIC DIAGRAMS

SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES

Important safety notice

Components identified by the sign A have special characteristics important for safety. When replacing any of these components. Use only the specified parts.

Replacement parts

- 1. Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since this drawing was prepared.
- 2. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.
- 3. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.

WF7←⑤

- a. Color bar signal in SP mode.
- b. ---: Unmeasurable or not necessary to measure.

Test point information

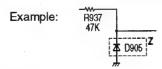
(2) :Test point with no test pin.

Schematic Diagram Notes

1. Indication for Zener Voltage of Zener Diodes The Zener Voltage of Zener Diodes are indicated as such on Schematic Diagrams.

Example: (6.2V).....Zener Voltage

2. Parts enclosed in dashed lines marked "Z" are not used in any models included in this service manual.



3. The part number shown on this drawing is only main part number, except for safety parts. Be sure to make your orders of replacement parts according to the parts list.

Voltage Chart Note

Signal Waveform Note

How to read Signal Waveform

ΔV1 2.6Vp-p

Voltage Measurement

Connecting Point

Operation Mode of

Waveform Point on

Volts/Div

Schematic

⑥ △ V1:Peak to Peak

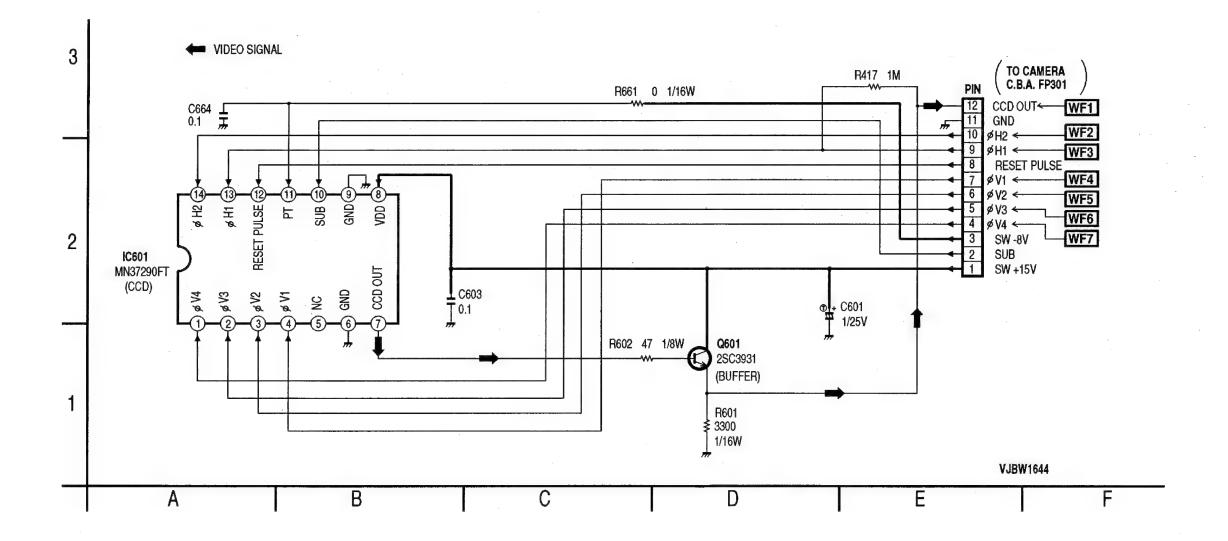
VCR Time/Div

Circuit Board Layout Note

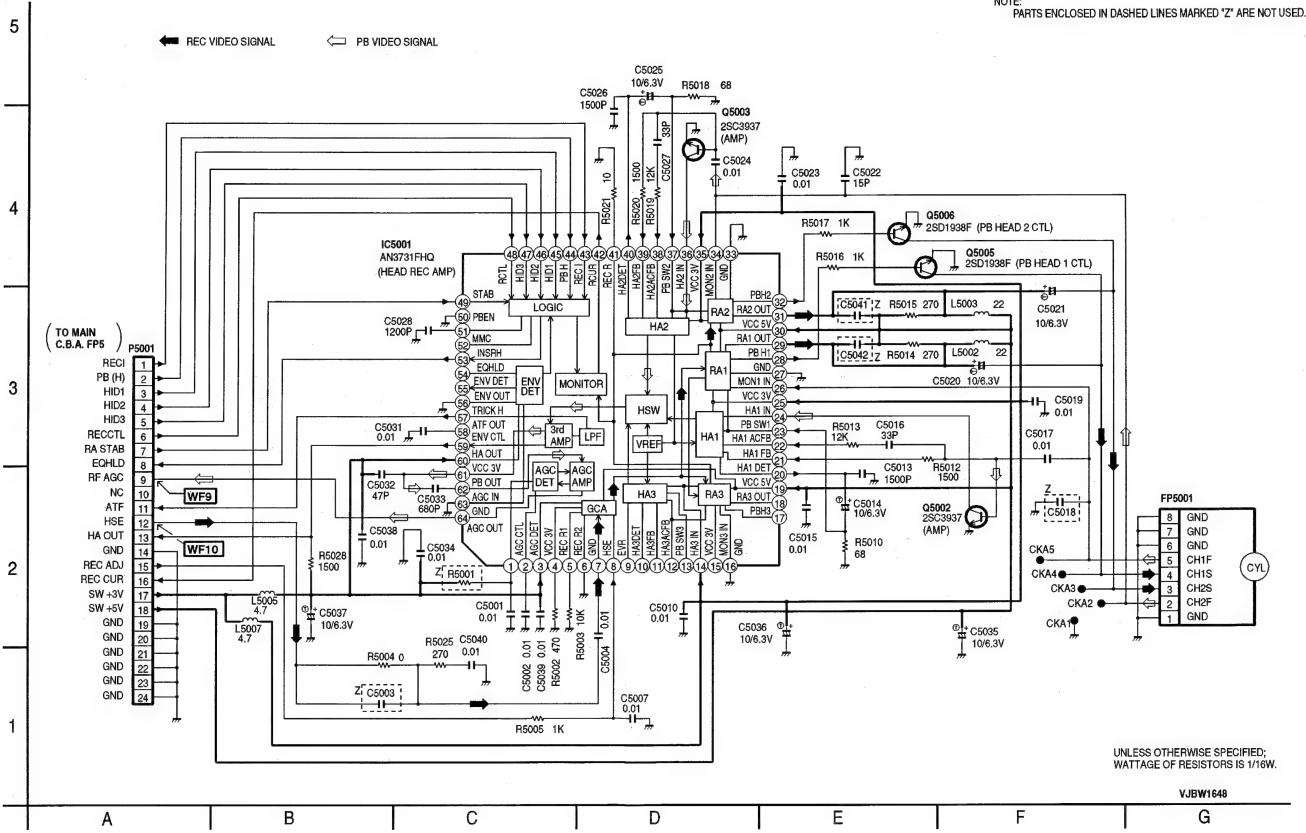
Circuit Board Layout shows components installed for various

For proper parts content for the model you are servicing, please refer to the schematic diagram and parts list.

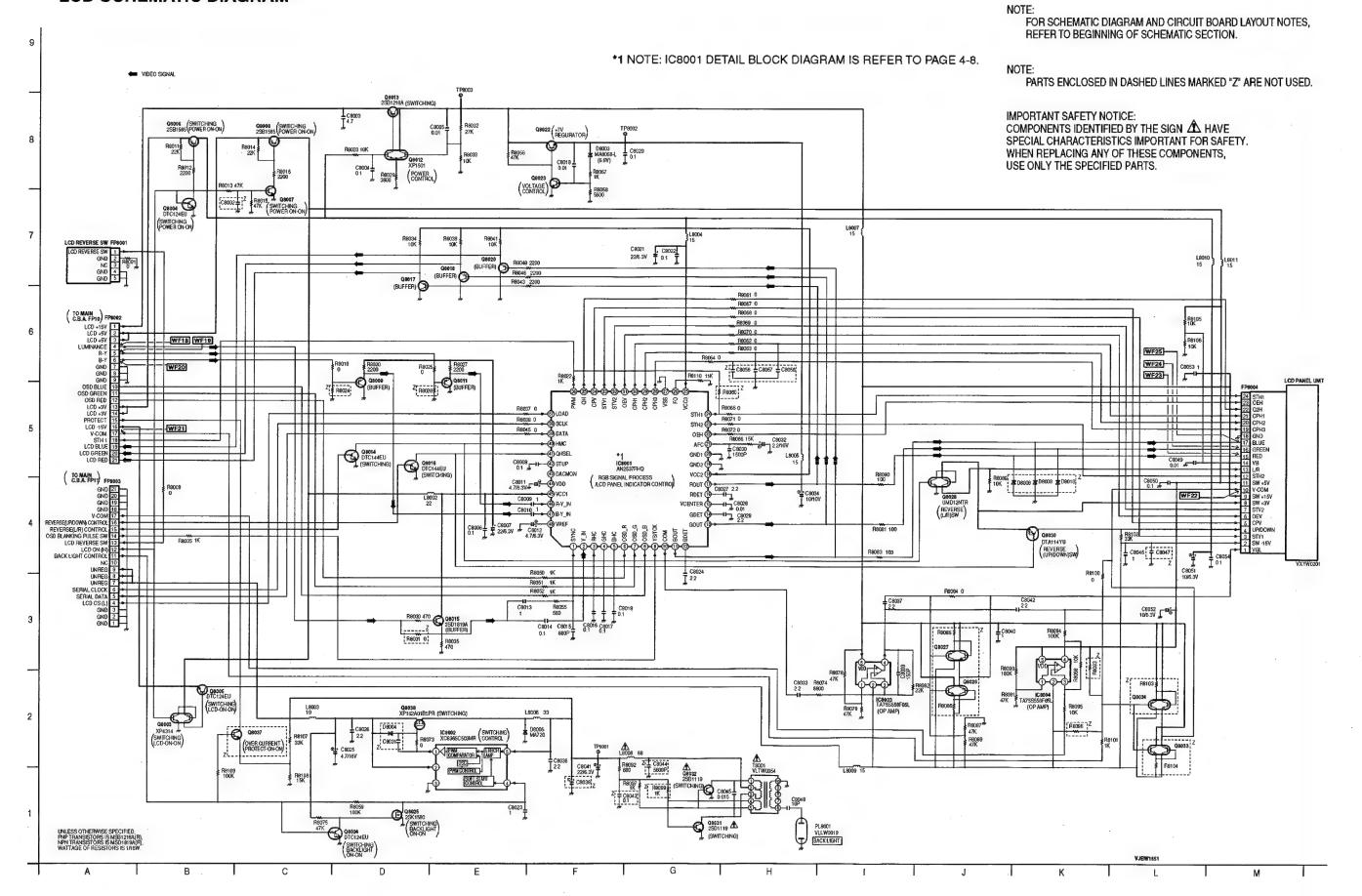
NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.



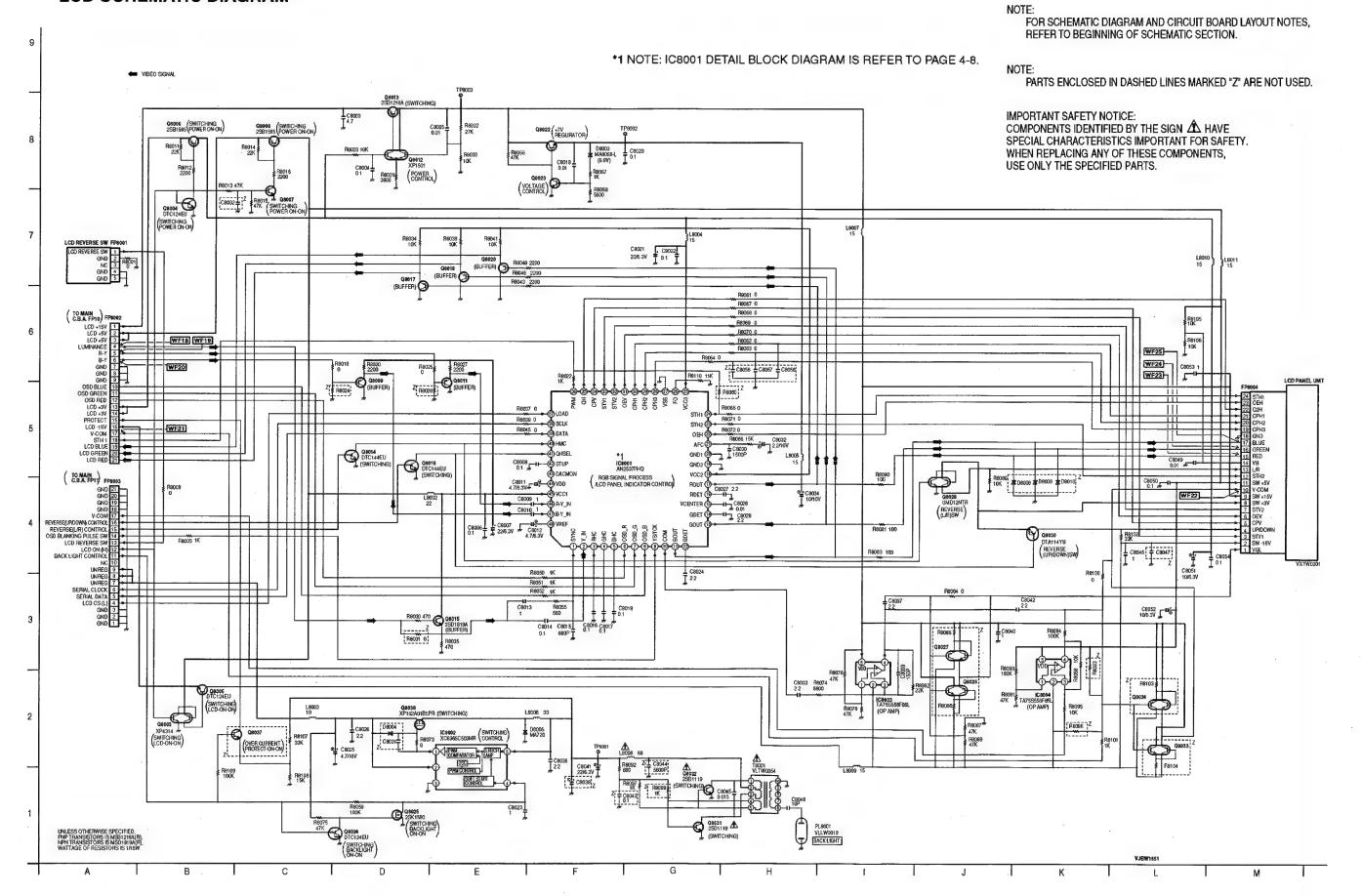
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.



LCD SCHEMATIC DIAGRAM



LCD SCHEMATIC DIAGRAM

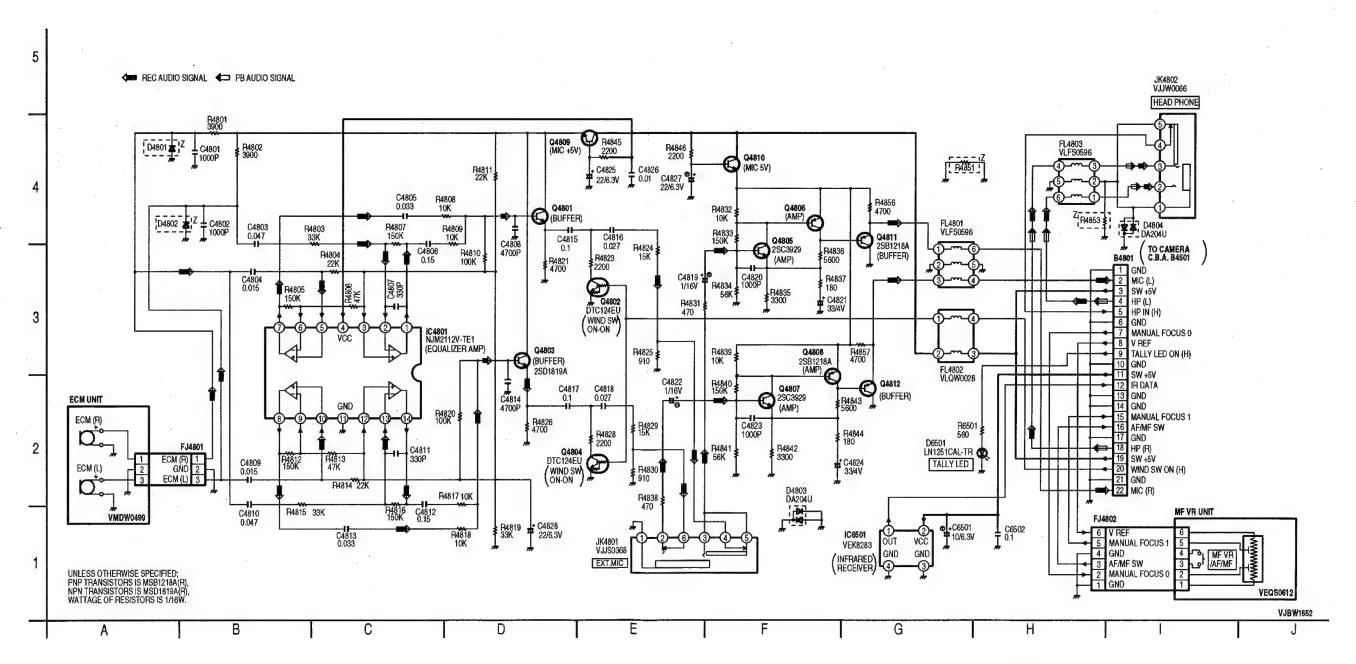


NOTE:

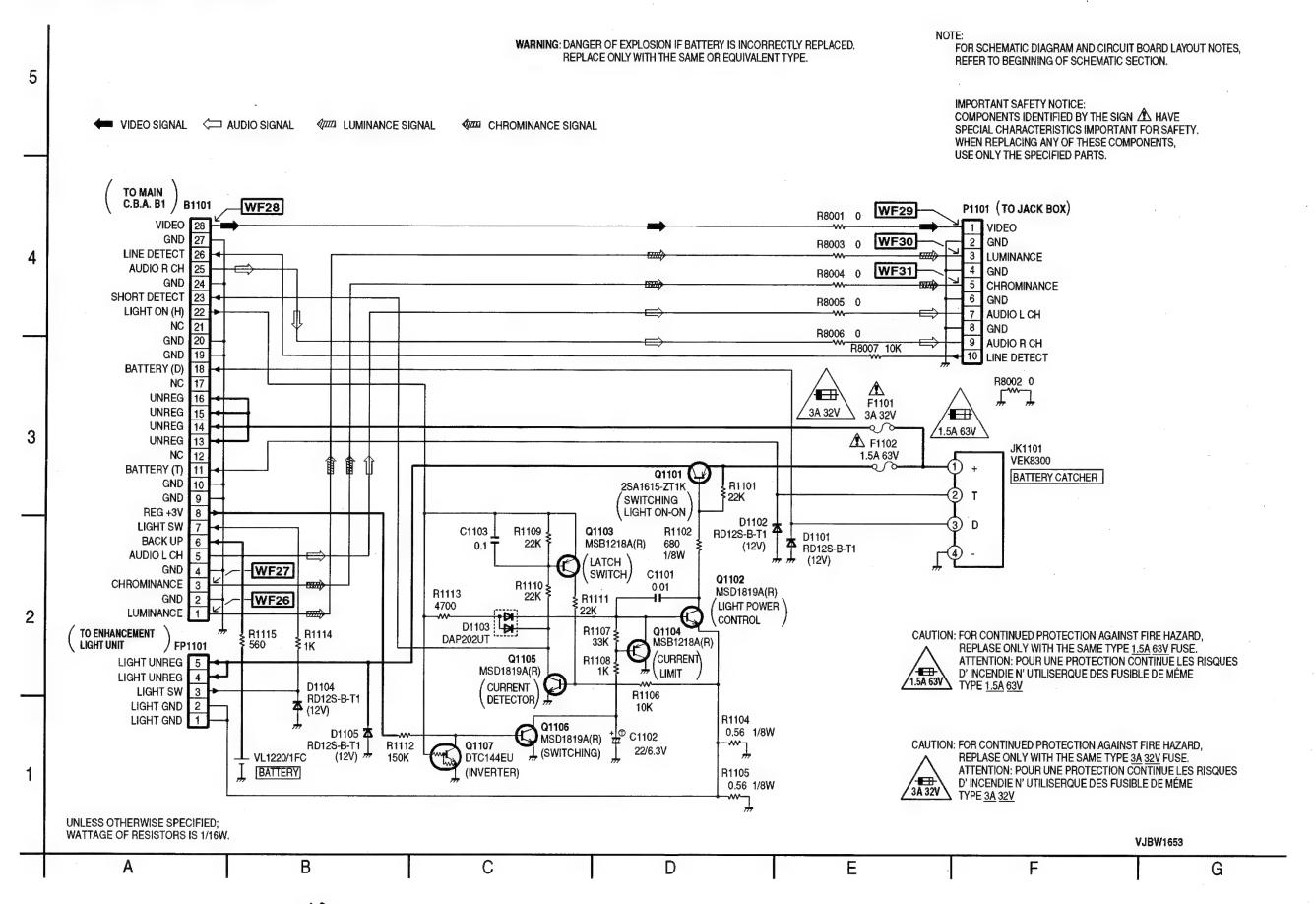
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE

PARTS ENCLOSED IN DASHED LINES MARKED "Z" ARE NOT USED.



REAR SCHEMATIC DIAGRAM



EVF DRIVE / EVF BACKLIGHT SCHEMATIC DIAGRAM

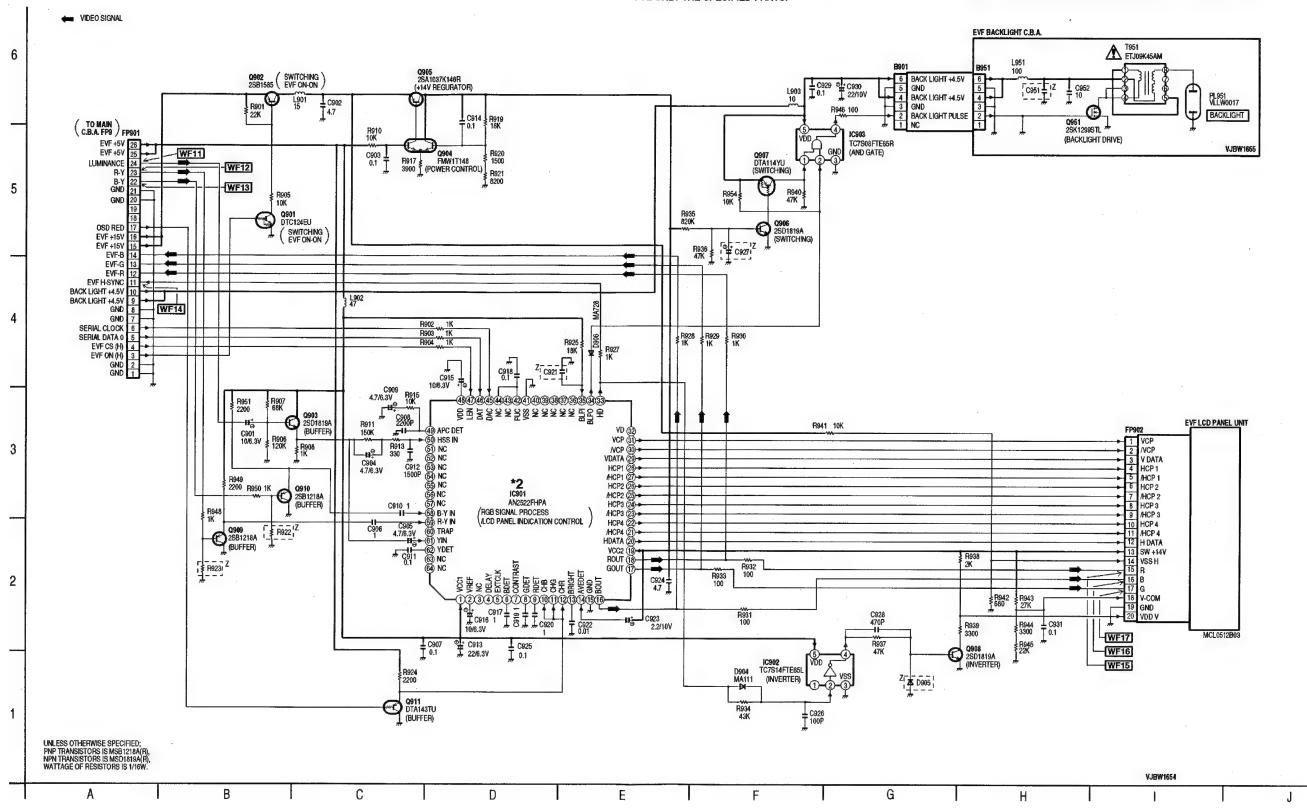
NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

*2 NOTE: IC901 DETAIL BLOCK DIAGRAM IS REFER TO PAGE 4-8.

NOTE:
PARTS ENCLOSED IN DASHED LINES MARKED "Z" ARE NOT USED.



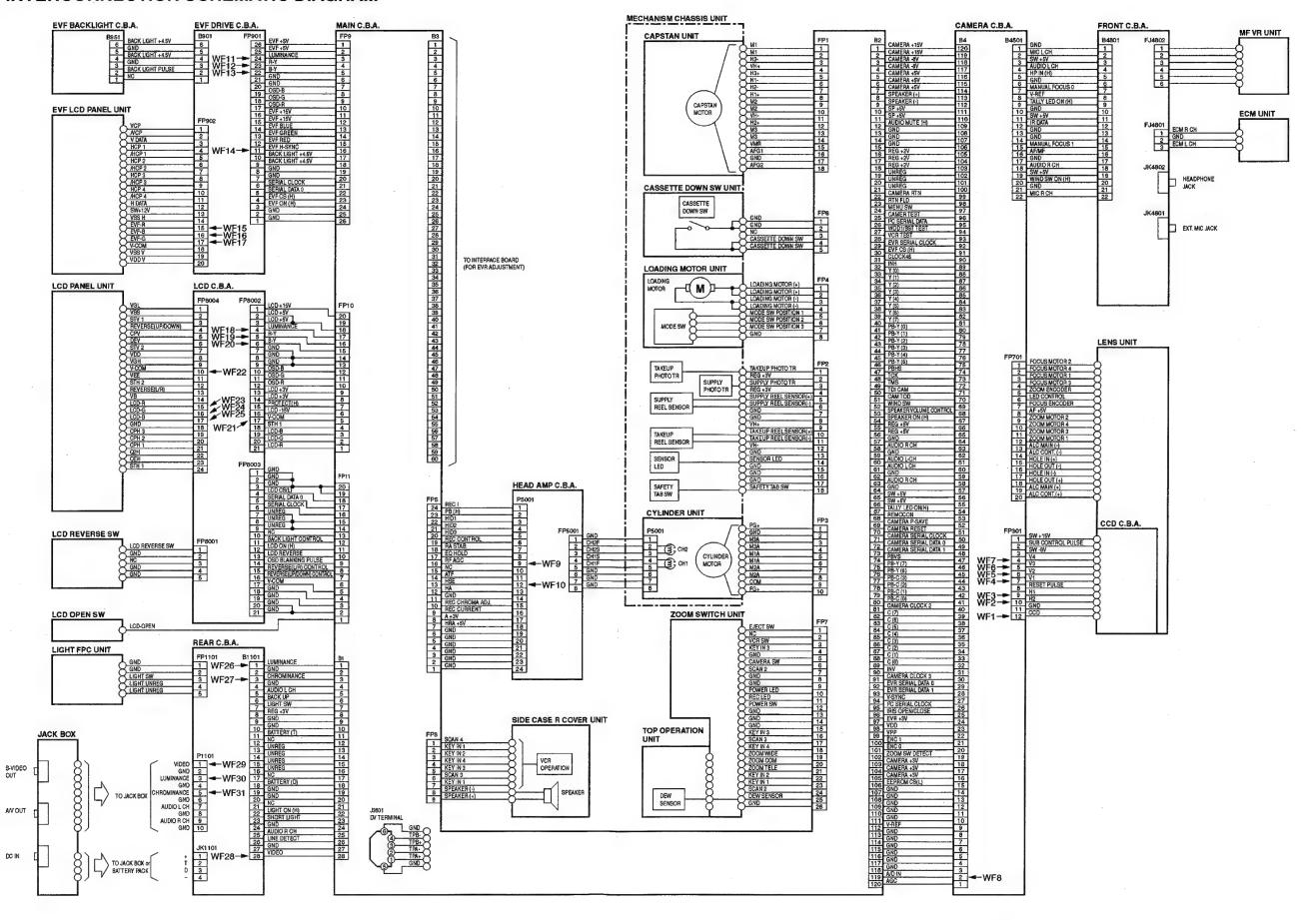
IC-DETAIL BLOCK DIAGRAM

*1 IC8001 (RGB SIGNAL PROCESS / LCD PANEL INDICATOR CONTROL) **PHASE DETECTOR* PHASE DETE

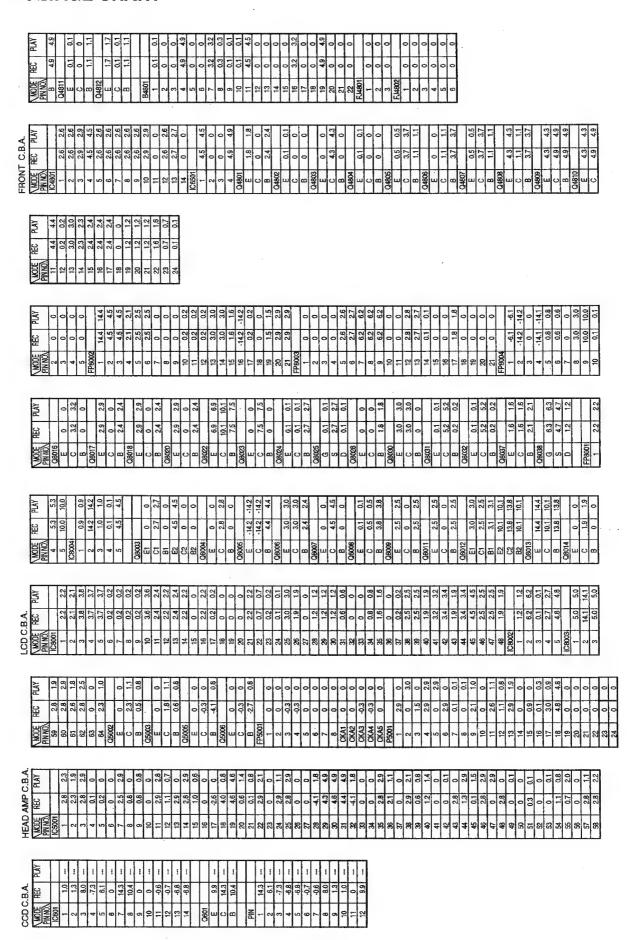
VREF

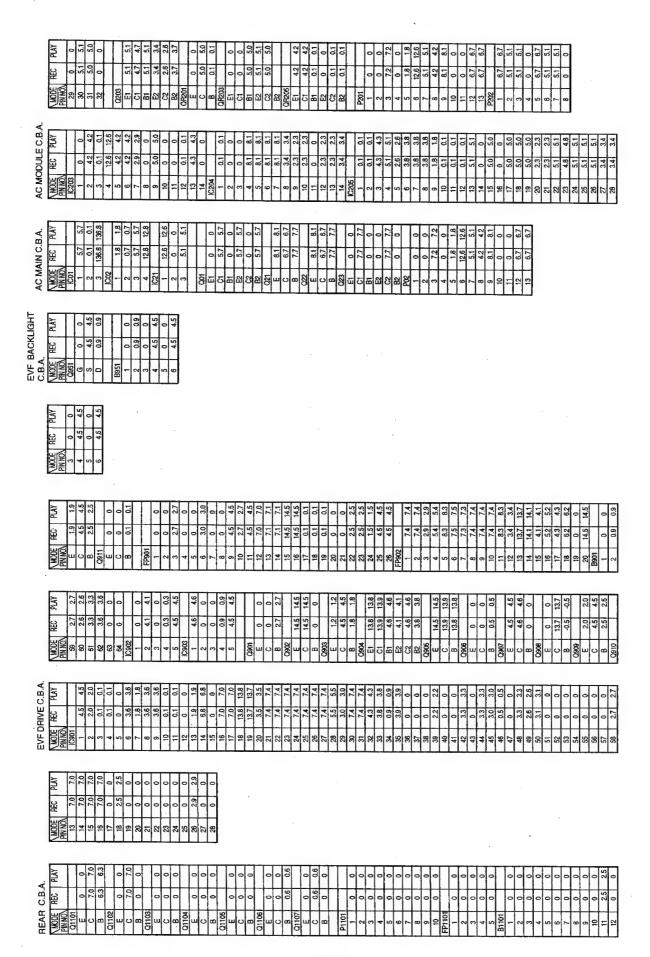
DET

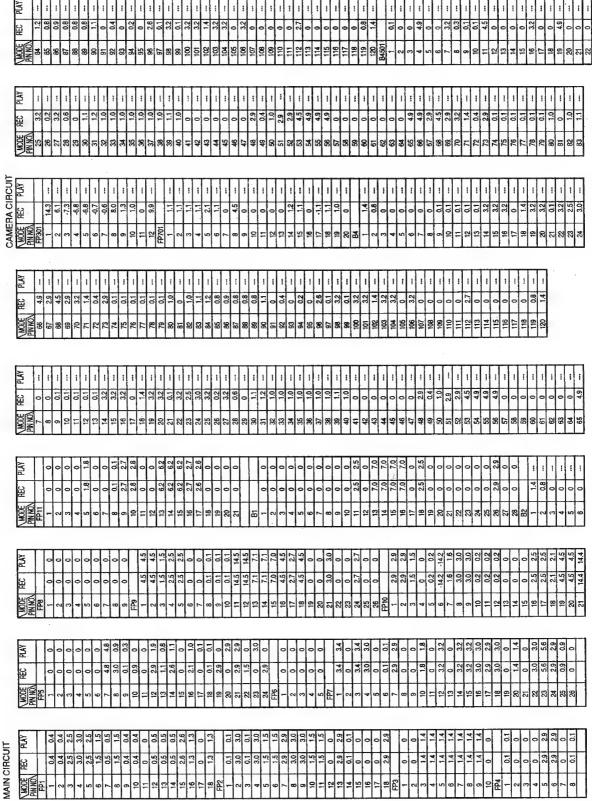
INTERCONNECTION SCHEMATIC DIAGRAM



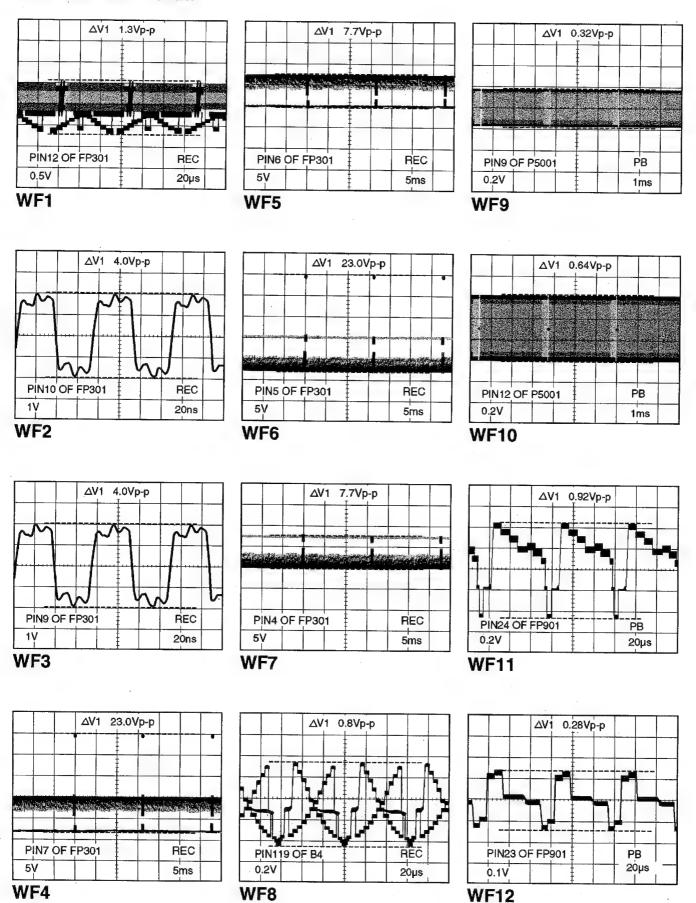
VOLTAGE CHART

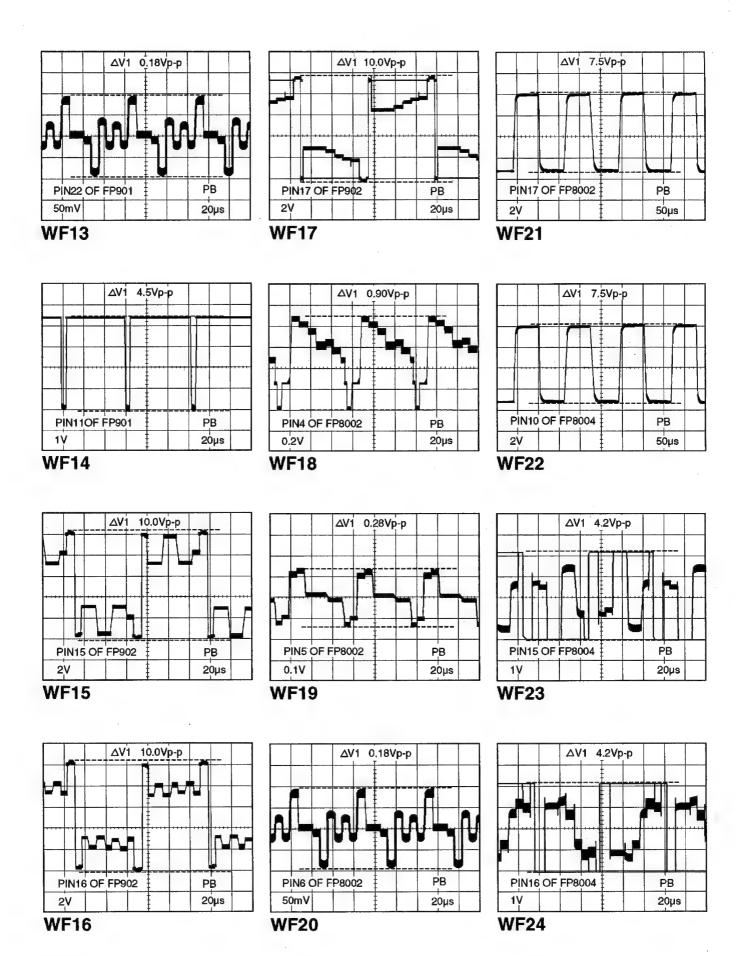


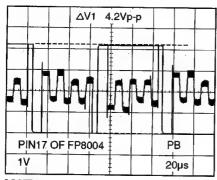


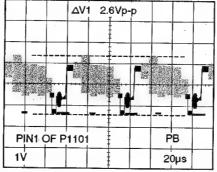


SIGNAL WAVEFORM



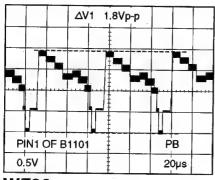


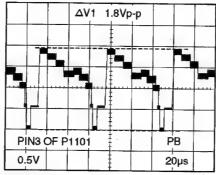




WF25

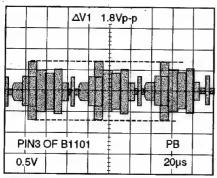
WF29

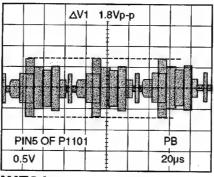




WF26

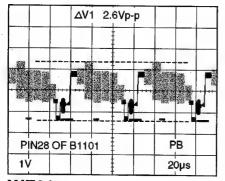
WF30





WF27

WF31



WF28

CIRCUIT BOARD LAYOUT

CCD C.B.A. VEQW0284

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

CCD C.B.A.							
Integrated Circuit							
IC601	B-2						
Transistor							
Q601	A-2						
Connector							
P601	C-1						
Capacitor							
C601	A-3						
C603	A-2						
C664	B-2						
Resistor							
R601	A-2						
R602	A-3						
R661	B-2						
Wire							
W001	_ B-2						
ADDRESS INTERDMATIO							

C В Α VJBW1644F (0) 1 2

HEAD AMP C.B.A. VEQW0289

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

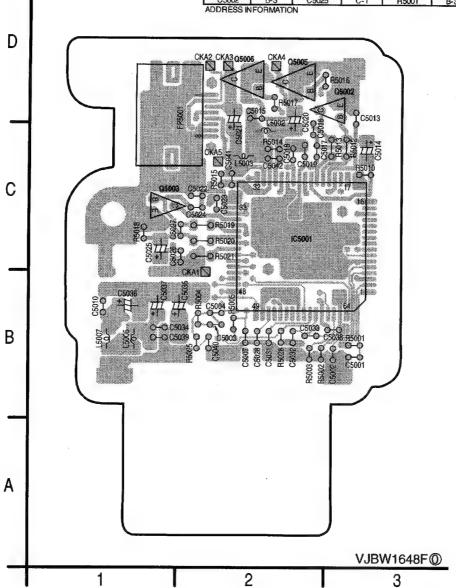
NOTE:

CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST FOR PROPER PARTS CONTENT.

NOTE: MULTILAYER C.B.A.

THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT PATETRNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

			HEAD /	MP C.B.A.			
integrated C	ircuit	C5003	B-2	C5026	C-1	R5002	B-3
IC5001	C-2	C5004	B-2	C5027	C-1	R5003	B-2
Transistor		C5007	B-2	C5028	B-2	R5004	B-2
Q5002	D-3	C5010	B-1	C5031	8-2	R5005	B-2
Q5003	C-1	C5013	D-3	C5032	B-2	R5010	C-3
Q5005	D-2	C5014	C-3	C5033	B-2	R5012	C-3
Q5006	D-2	C5015	D-1	C5034	B-1	R5013	C-3
Connector		C5016	C-2	C5035	B-2	R5014	C-2
FP5001	C-2	C5017	Ç-2	C5036	B-1	R5015	C-2
Coil		C5018	C-2	C5037	B-1	R5016	D-3
L5002	C-2 ·	C5019	C-2	C5038	B-3	R5017	D-2
L5003	C-2	C5020	C-2	C5039	B-1	R5018	C-1
L5005	B-1	C5021	C-2	C5040	B-2	R5019	C-2
L5007	B-1	C5022	C-2	C5041	C-2	R5020	C-2
Capacitor		C5023	C-2	C5042	C-2	R5021	C-2
C5001	B-3	C5024	C-2	Resistor			B-2
C5002	B-3	C5025	C-1	R5001	B-3	R5025 R5028	B-2

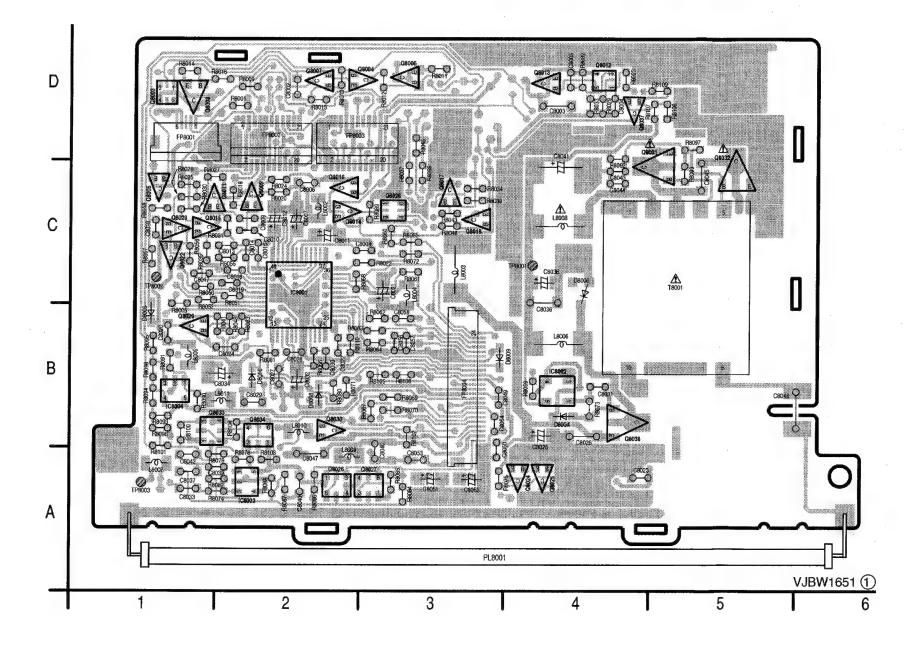


LCD C.B.A. VEPW1651A1

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE:
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST FOR PROPER PARTS CONTENT.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.



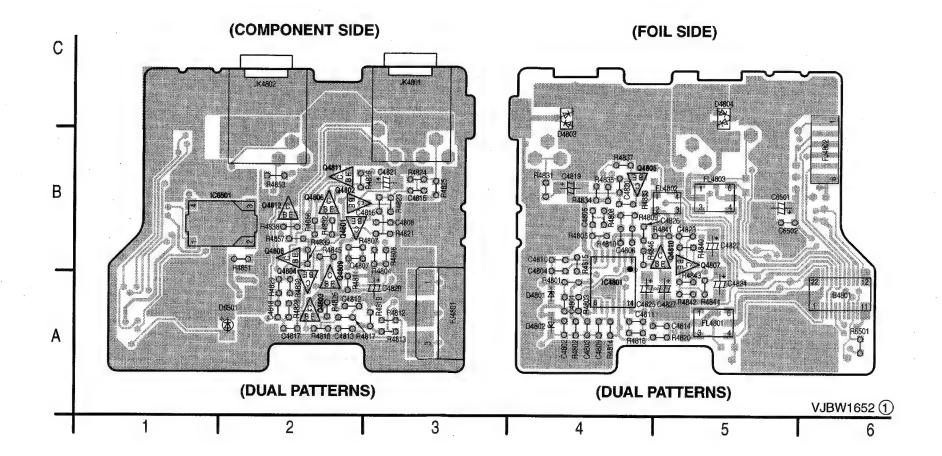
LCD C.B.A.										
Integrated (Circuit	L8009	A-2	C8056	B-3	R8072	C-3			
IC8001	C-2	L8010	B-2	C8057	B-3	R8073	B-4			
IC8002	B-4	L8011	B-2	C8058	B-3	R8074	A-1			
IC8003	A-2	Capacitor		Resistor		R8075	A-4			
IC8004	B-1	C8002	D-2	R8001	D-2	R8078	A-2			
Transistor		C8003	D-4	R8005	B-1	R8079	A-1			
Q8003	D-1	C8004	D-4	F18009	D-2	R8080	B-2			
Q8004	D-2	C8005	D-4	R8011	D-3	R8081	B-2			
Q8005	C-1	C8006	C-2	R8012	D-3	R8082	A-1			
Q8006	D-3	C8007	C-2	R8013	D-2	R8083	B-2			
Q8007	D-2	C8008	C-3	R8014	D-1	R8084	A-3			
Q8008	D-1	C8009	C-2	R8015	D-2	R8085	A-3			
Q8009	C-2	C8010	C-2	R8016	D-1	R8086	A-2			
Q8011	C-2	C8011	C-2	R8018	C-2	R8087	A-2			
Q8012	D-4	C8012	C-2	R8020	C-2	R8088	A-2			
Q8013	D-4	C8013	C-2	R8022	C-3	R8089	C-3			
Q8013	C-2	C8013	C-2	R8023	D-4	R8090	B-1			
Q8014 Q8015	C-1	C8015	C-2	R8024	C-2	R8091	B-1			
Q8016	C-2	C8016	C-2	R8025	C-1	R8092	C-4			
Q8017	C-3	C8017	C-1	R8027	C-1					
Q8017	C-3		C-1			R8093	B-1 B-1			
		C8018		R8028	C-1	R8094				
Q8020	B-1	C8019	C-2	R8029	D-4	R8095	B-1			
Q8022	C-1	C8020	B-1	R8030	C-1	R8096	B-1			
Q8023	C-1	C8021	C-3	R8031	C-1	R8097	D-5			
Q8024	A-4	C8022	B-2	R8032	D-4	R8098	B-1			
Q8025	A-4	C8023	A-4	R8033	D-4	R8099	C-5			
Q8026	A-2	C8024	B-2	R8034	C-3	R8100	B-1			
Q8027	A-3	C8025	A-4	R8035	C-1	R8101	A-1			
Q8028	C-2	C8026	B-4	R8037	C-3	R8102	B-3			
Q8030	B-2	C8027	B-2	R8038	C-3	R8103	A-2			
Q8031	D-4	C8028	B2	R8039	C-3	R8104	B-2			
Q8032	D-5	C8029	B-2	R8041	B-2	R8105	B-3			
Q8033	B-1	C8030	B-2	R8043	C-3	R8106	B-3			
Q8034	B-2	C8031	B-4	R8045	D-3	R8107	D-4			
Q8037	D-4	C8032	B-4	R8046	C-3	R8108	D-5			
Q8038	B-4	C8033	A-1	R8048	B-2	R8109	D-5			
Diode		C8034	B-2	R8050	C-1	R8110	B-2			
D8003	B-1	C8036	B-4	R8051	B-2	Transformer				
D8004	B-4	C8037	A-1	R8052	B-1	T8001	C-5			
D8006	C-2	C8038	C-4	R8055	C-2	Testpoint				
D8008	B-2	C8039	A-1	R8056	C-1	TP8001	C-5			
D8009	B-4	C8040	A-2	R8057	C-1	TP8002	C-1			
D8010	B-2	C8041	D-4	R8058	C-1	TP8003	A-1			
Connector		C8042	A-1	R8059	B-4	PL	11.1			
FP8001	D-1	C8043	C-4	R8060	C-3	PL8001	A-3			
FP8002	D-2	C8044	C-4	R8061	C-3	1 20001	7-0			
FP8003	D-2	C8045	C-5	R8062	B-3					
FP8004	B-3	C8046	A-3	R8063	B-2					
Coll	0-0	C8047	A-3 A-2	R8064	B-3					
L8002	C-2	C8047	B-5	R8065	C-3					
L8002	C-3	C8048 C8049	B-5 B-4							
				R8066	B-2					
L8004	C-3	C8050	A-4	R8067	B-3					
L8005	B-1	C8051	A-3	R8068	C-3					
L8006	B-4	C8052	A-3	R8069	B-3					
L8007	A-1	C8053	A-3	R8070	B-3					
£.8008	C-4	C8054	B-3	R8071	B-2					

5-3

NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

NOTE: CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED. PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST FOR PROPER PARTS CONTENT.

					FRON	T C.B.A.					
Integrated C	ircuit	D6501	A-2	C4813	A-2	R4803	A-4	R4825	B-3	R4851	B-2
IC4801	A-4	Connector		C4814	A-5	FI4804	B-3	R4826	A-2	R 4853	B-2
IC6501	B-1	B4801	A-6	C4815	B-3	R4805	B-4	R4828	A-2	R4856	B-2
Transistor		FJ4801	A-3	C4816	B-3	R4806	B-3	R4829	A-2	R4857	B-2
Q4801	B-2	FJ4802	B-6	C4817	A-2	R4807	B-2	R4830	A-2	R6501	A-6
Q4802	B-2	Jack		C4818	A-2	R 4808	B-4	R4831	B-4	Filter	
Q4803	A-2	JK4801	C-3	C4819	B-4	R4809	B-4	R4832	B-4	FL4801	A-5
Q4804	B-2	JK4802	C-2	C4820	B-4	R4810	B-4	R4833	B-2	FL4802	B-5
Q4805	B-5	Capacitor		C4821	B-3	R4811	A-2	R4834	B-4	FL4803	B-5
Q4806	B-2	C4801	A-4	C4822	B-5	R4812	A-3	R4835	B-4	12.000	
Q4807	B-5	C4802	A-4	C4823	B-5	R4813	A-3	R4836	B-3		
Q4808	B-2	C4803	A-4	C4824	A-5	R4814	A-4	R4837	B-4	! !	
Q4809	B-2	C4804	B-4	C4825	A-4	R4815	B-4	F14838	B-2	1 1	
Q4810	B-5	C4805	B-4	C4826	B-4	R4816	A-4	R4839	B-2	i i	
Q4811	B-2	C4806	B-4	C4827	A-5	R4817	A-2	R4840	B-5		
Q4812	B-2	C4807	B-2	C4828	A-3	R4818	A-2	R4841	B-5	1	
Diode		C4808	B-3	C6501	B-5	R4819	A-3	R4842	A-5		
D4801	A-4	C4809	A-4	C6502	B-5	R4820	A-5	R4843	B-5	1 1	
D4802	A-4	C4810	B-4	Resistor		R4821	B-3	R4844	A-5	1 1	
D4803	C-4	C4811	A-4	R4801	A-4	R4823	B-3	R4845	B-2	1 1	
D4804	C-5	C4812	A-2	R4802	A-4	R4824	B-3	R4846	B-4		



REAR C.B.A. VEPW1653A1

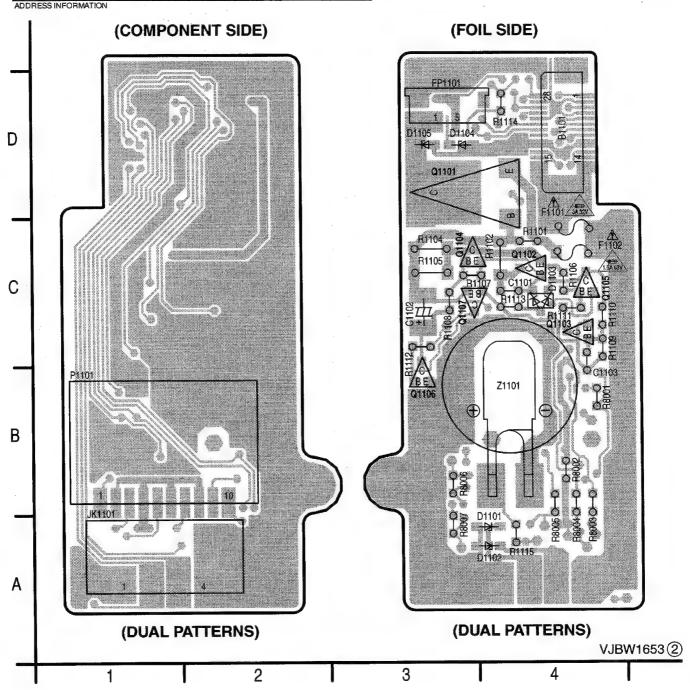
NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

REAR C.B.A.									
Transistor		Connector		R1105	C-3	R8004	A-4		
Q1101	D-3	B1101	D-4	R1106	C-4	R8005	A-4		
Q1102	C-4	FP1101	D-3 ·	R1107	C-3	R8006	B-3		
Q1103	C-4	P1101	B-1	R1108	C-3	R8007	A-3		
Q1104	C-3	Jack		R1109	C-4	Filter			
Q1105	C-4	JK1101	A-1	R1110	C-4	F1101	C-4		
Q1106	B-3	Capacitor		R1111	C-4	F1102	C-4		
Q1107	C-3	C1101	C-4	R1112	B-3				
Diode		C1102	C-3	R1113	C-4	1			
D1101	A-4	C1103	B-4	R1114	D-4	1			
D1102	A-4	Resistor		: R1115	A-4				
D1103	C-4	R1101	C-4	R8001	A-4				
D1104	D-3	R1102	C-4	R8002	A-4				
D1105	D-3	R1104	C-3	R8003	A-4				

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLASE ONLY WITH THE SAME TYPE 3A 32V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME
TYPE 3A 32V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLASE ONLY WITH THE SAME TYPE 1.5A 63V FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME TYPE 1.5A 63V



EVF BACKLIGHT C.B.A. VEPW1655A1

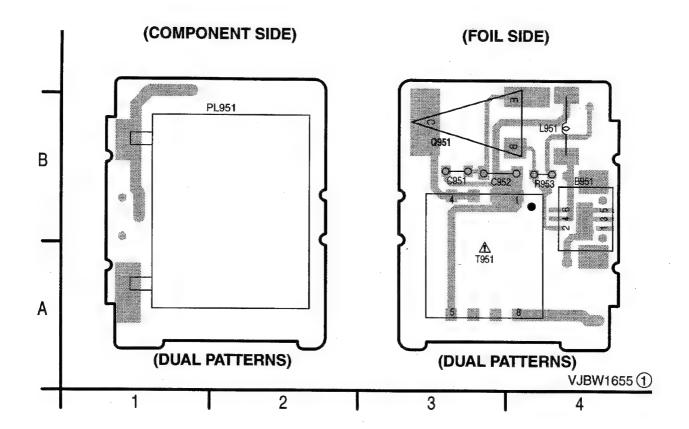
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST FOR PROPER PARTS CONTENT.

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING, ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

EVF B/L C.B.A.							
Transistor							
Q951	B-3						
Connector							
B951	B-4						
Coil							
L951	B-4						
Capacitor							
C951	B-3						
C952	B-3						
Resistor							
R953	B-4						
Transformer							
T951	A-3						
ADDDESS IN							

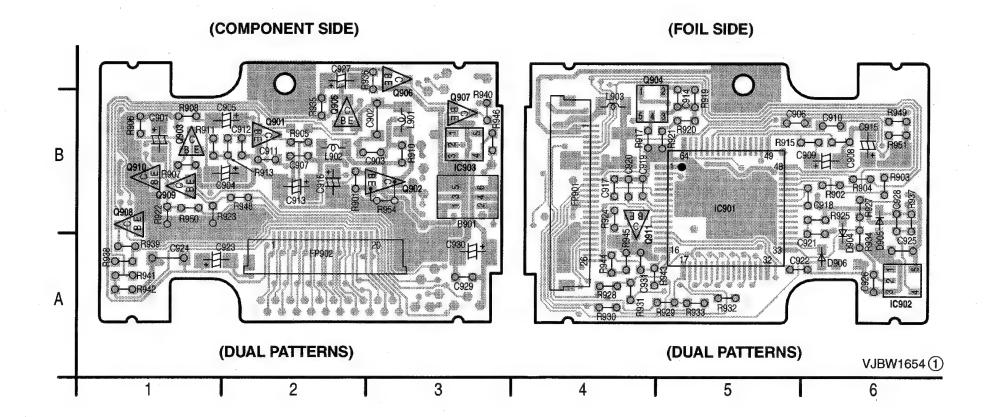
ADDRESS INFORMATION



NOTE:
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST FOR PROPER PARTS CONTENT.

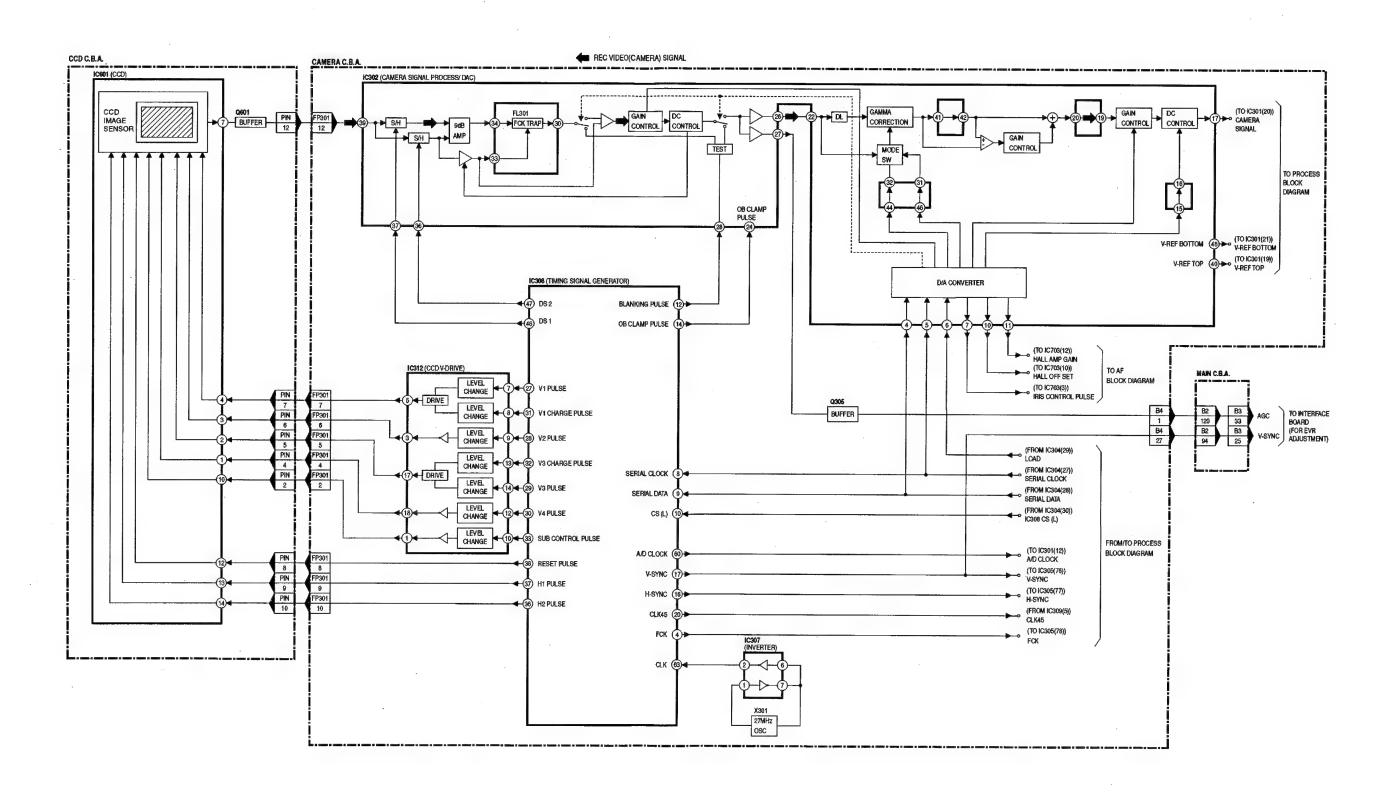
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

					EVF DRI	VE C.B.A.					
Integrated C	Circuit	D906	B-6	C910	B-6	C929	A-3	R921	B-5	R940	B-3
IC901	B-5	Coil		C911	B-2	C930	A-3	R922	B-1	R941	A-1
IC902	B-6	L901	B-3	C912	B-2	C931	A-4	R923	B-2	R942	A-1
IC903	B-3	L902	B-2	C913	B-2	Resistor		R924	B-4	R943	A-5
Transistor		L903	B-4	C914	B-5	R901	B-2	R925	B-6	R944	A-4
Q901	B-2	Connector		C915	B-6	R902	B-6	R926	A-6	R945	A-4
Q902	B-3	B901	B-3	C916	B-2	R903	8-6	R927	B-6	R948	B-2
Q903	B-1	FP901	B-4	C917	B-4	R904	B-6	R928	A-4	R949	B-6
Q904	B-4	FP902	A-2	C918	B-6	R905	B-2	R929	A-5	R950	B-1
Q905	B-2	Capacitor		C919	B-4	R906	B-1	F1930	A-4	R951	B-6
Q906	B-3	C901	B-1	C920	B-4	R907	B-1	R931	A-4	R954	B-3
Q907	B-3	C902	B-3	C921	A-6	R908	B-1	R932	A-5		
Q908	B-1	C903	B-3	C922	A-5	R910	B-3	R933	A-5		l
Q909	B-1	C904	B-2	C923	A-2	R911	B-1	R934	A-6		l
Q910	B-1	C905	B-2	C924	A-1	R913	B-2	R935	B-2		
Q911	A-4	C906	B-5	C925	A-6	R915	B-5	R936	B-3		
Diode .		C907	B-2	C926	A-6	R917	B-4	R937	B-6		
D904	A-6	C906	B-6	C927	B-2	R919	B-5	R938	A-1		
D905	A-6	C909	B-6	C928	B-6	R920	B-5	R939	A-1		1

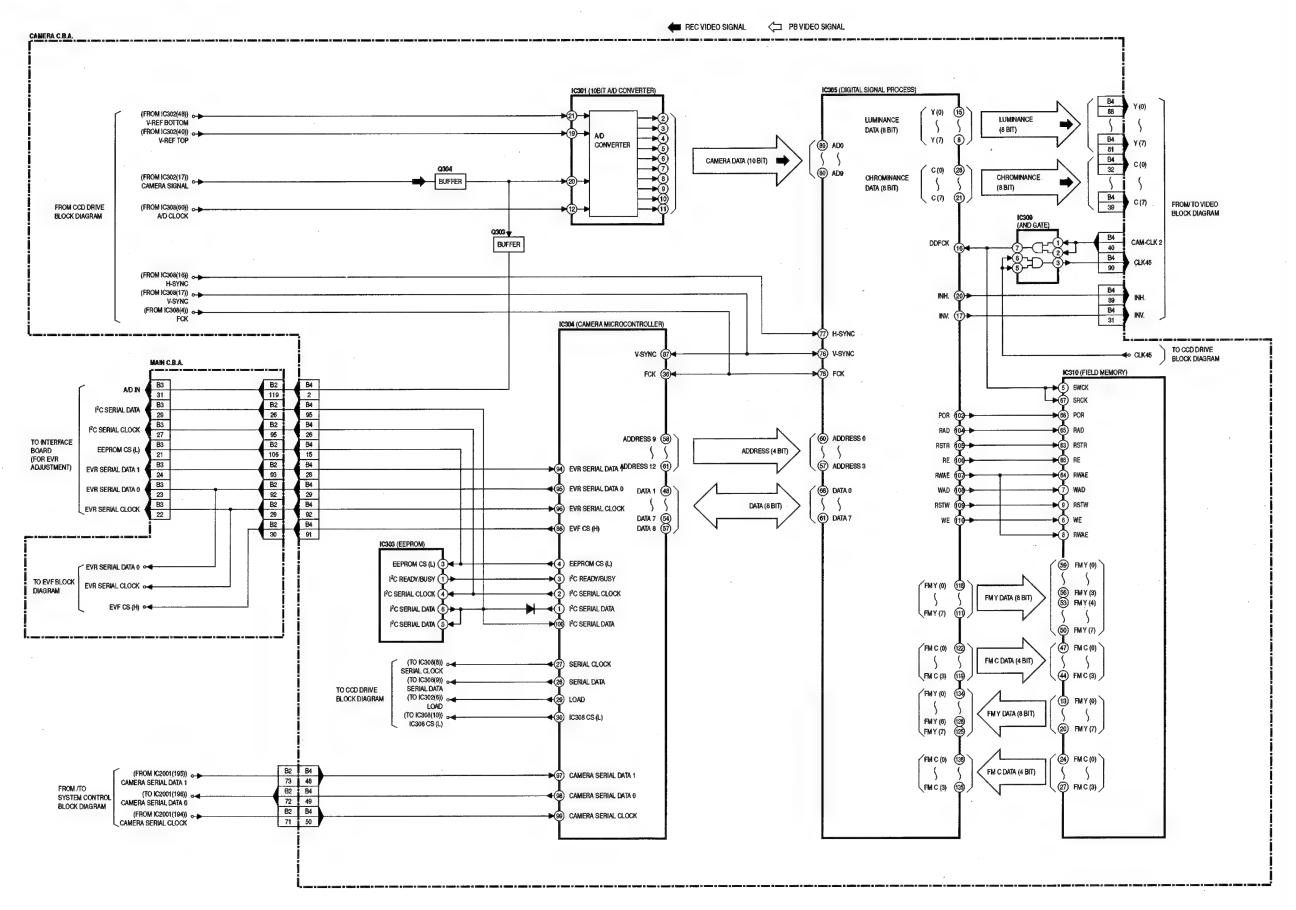


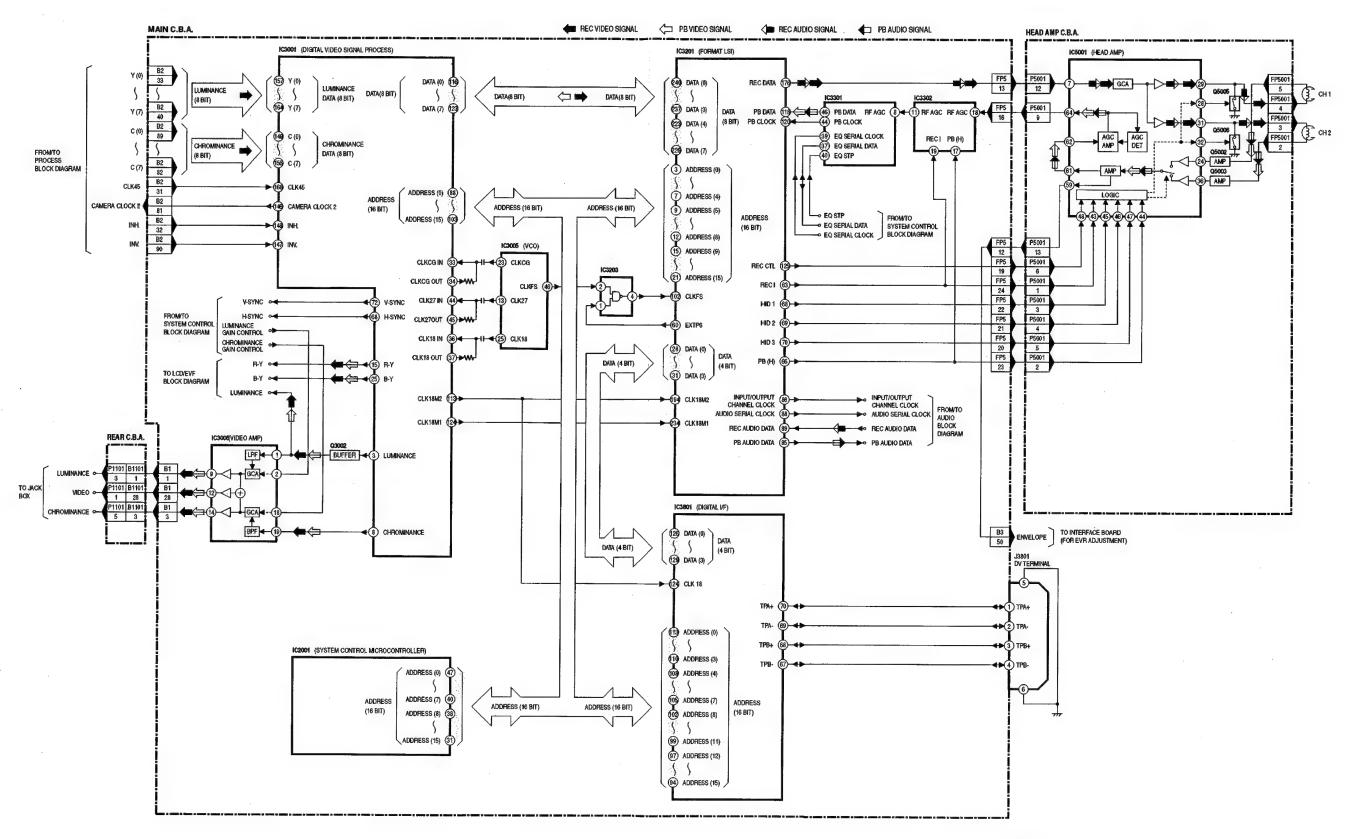
BLOCK DIAGRAMS

CCD DRIVE BLOCK DIAGRAM

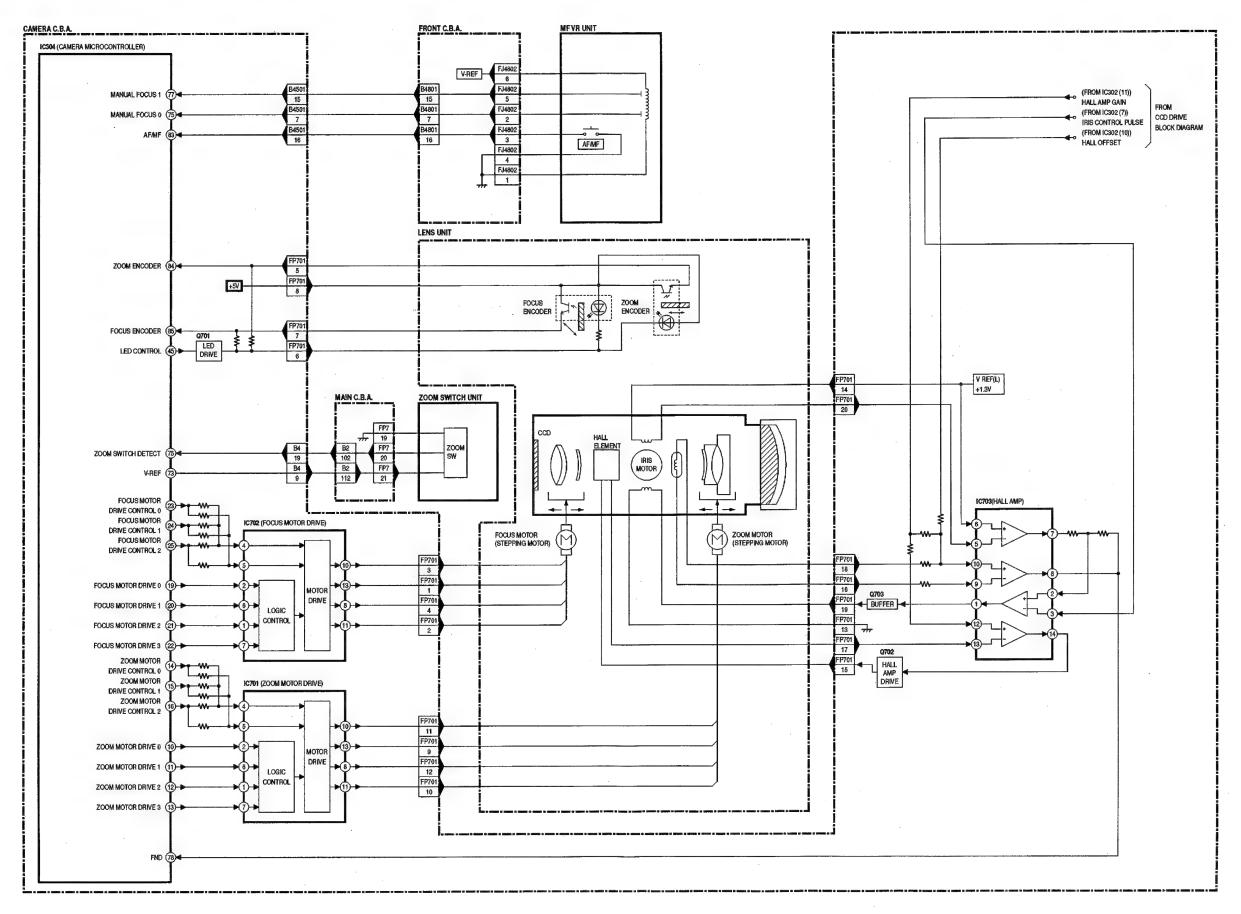


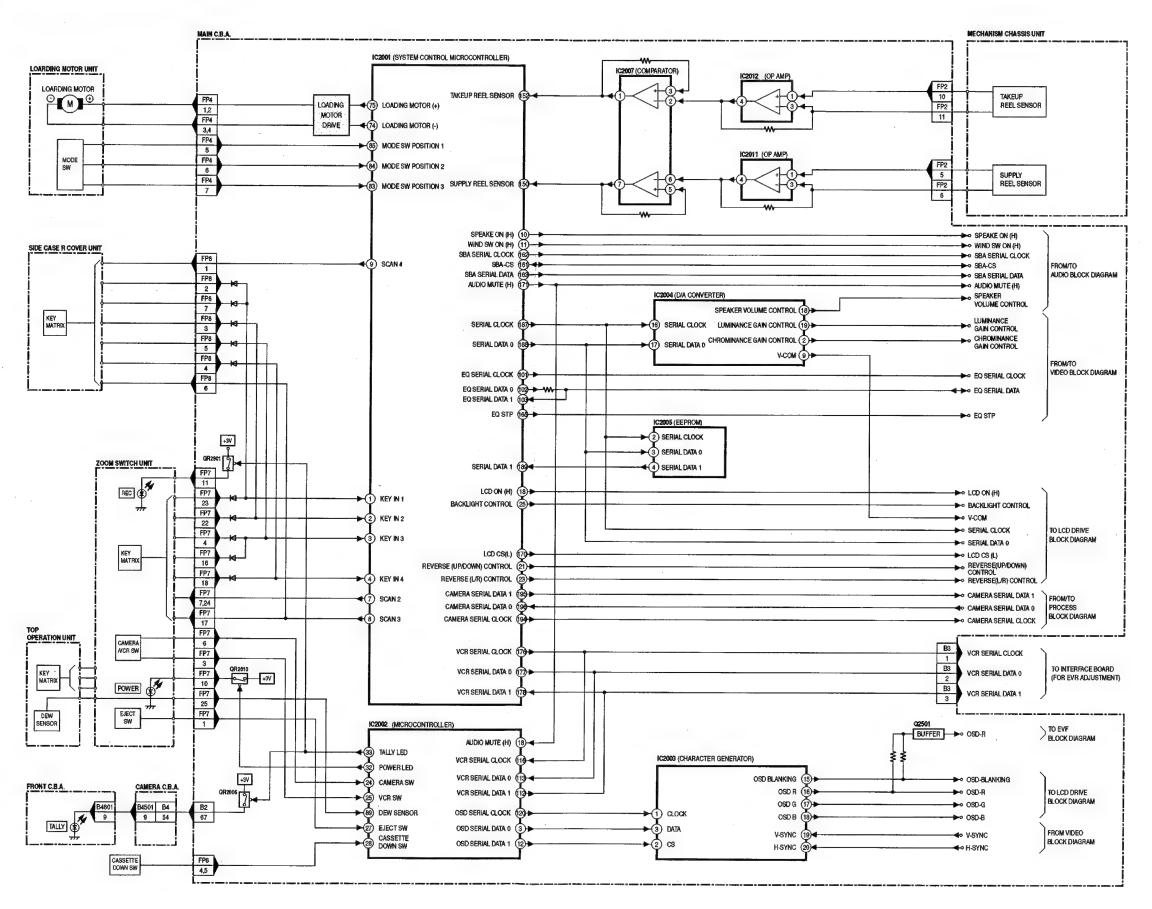
PROCESS BLOCK DIAGRAM

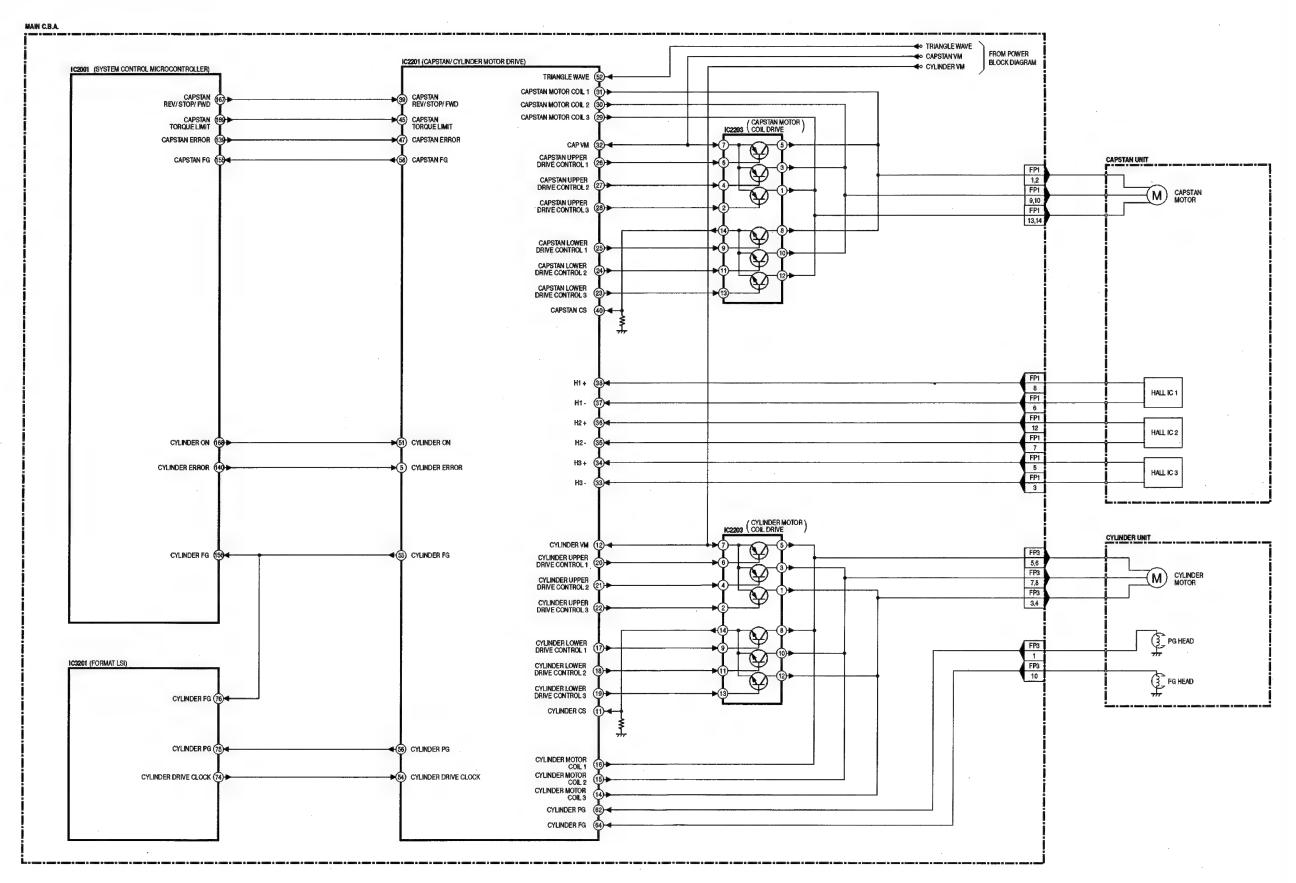


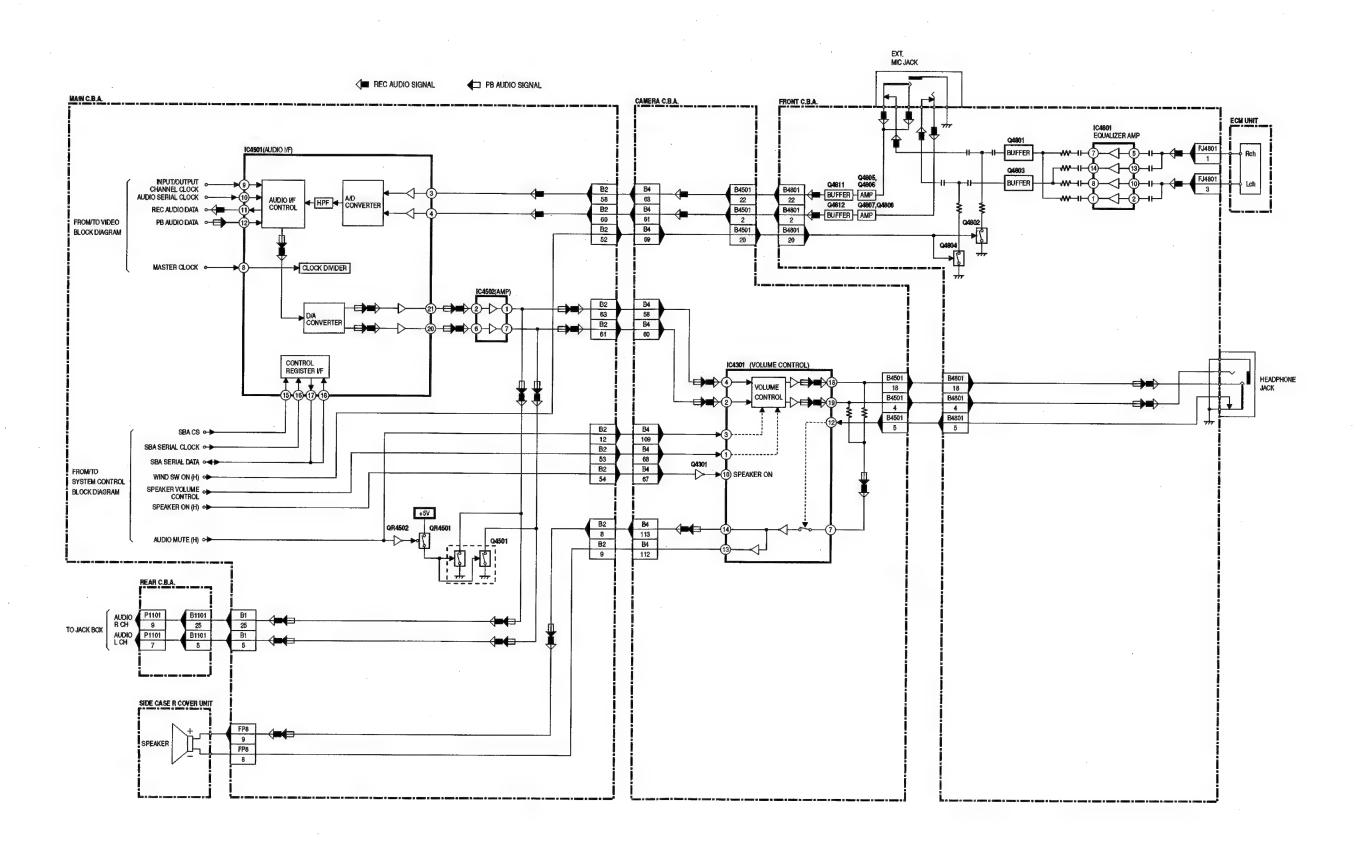


AF BLOCK DIAGRAM

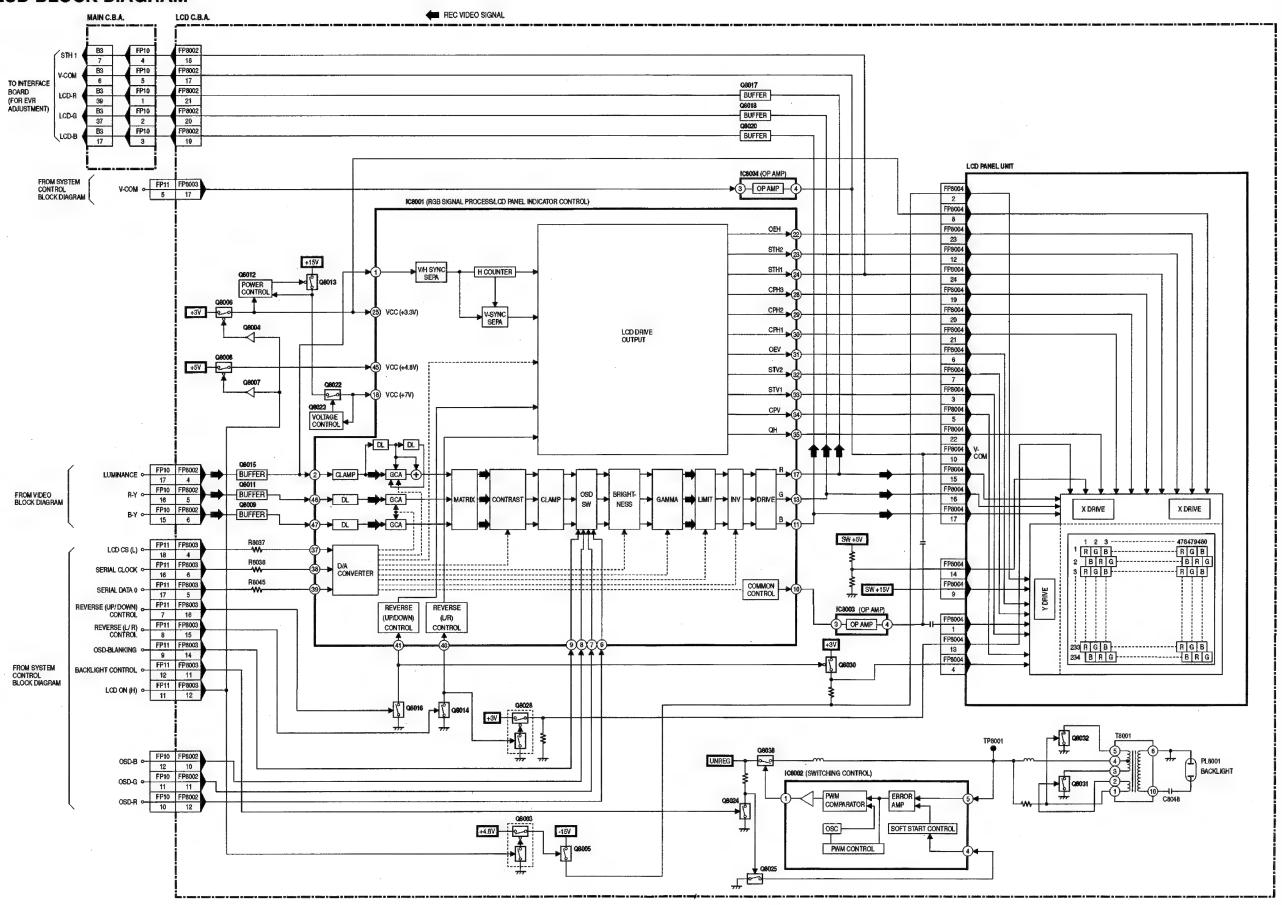


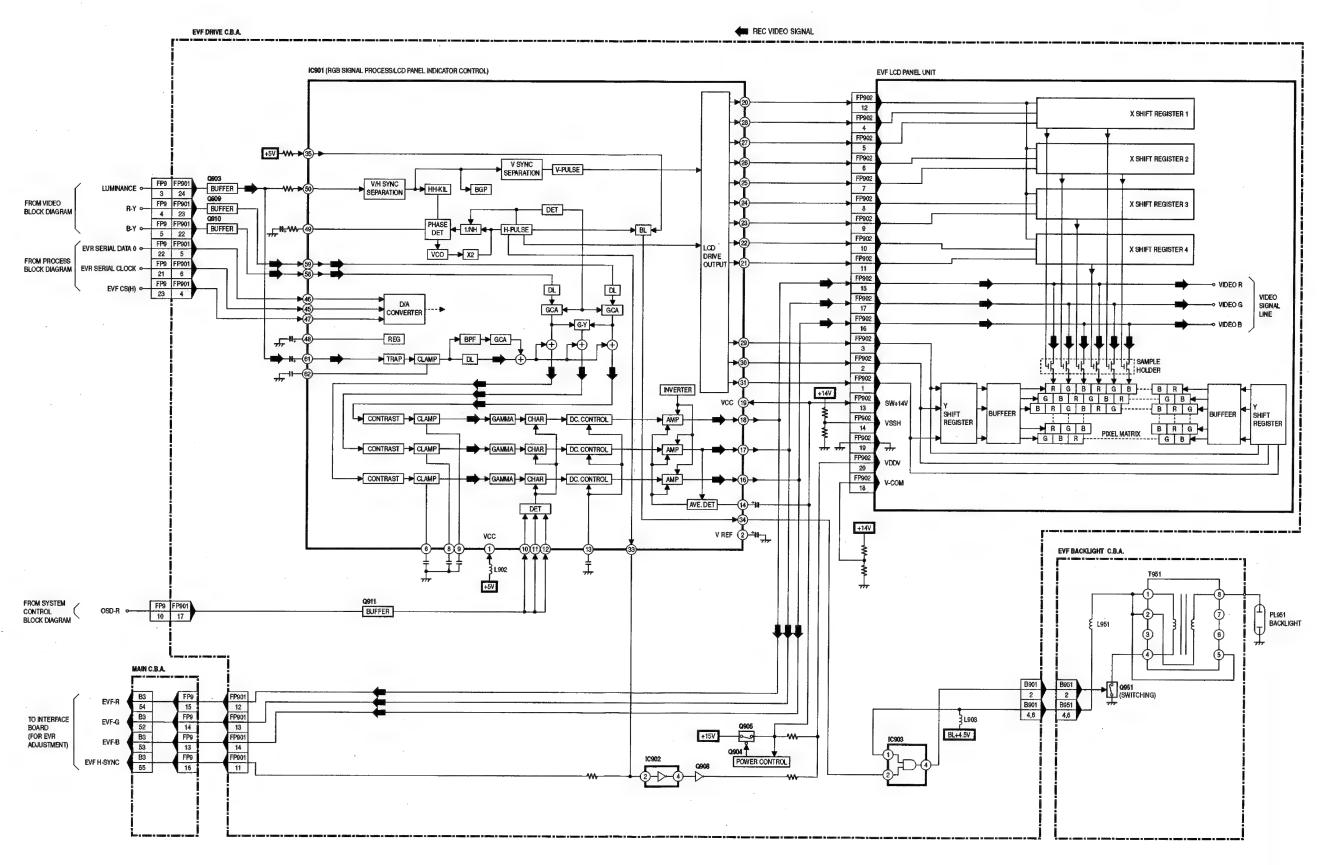


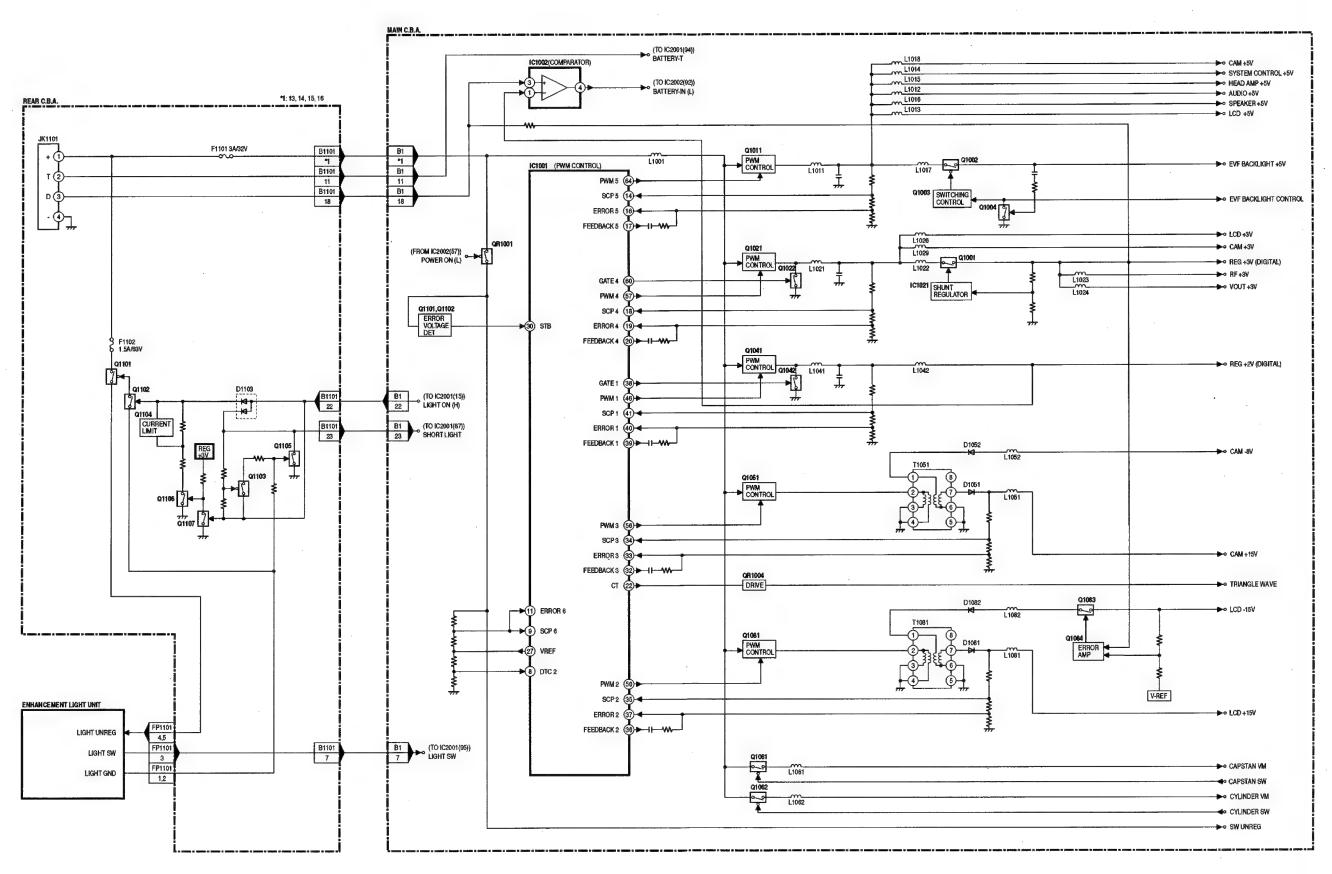




LCD BLOCK DIAGRAM





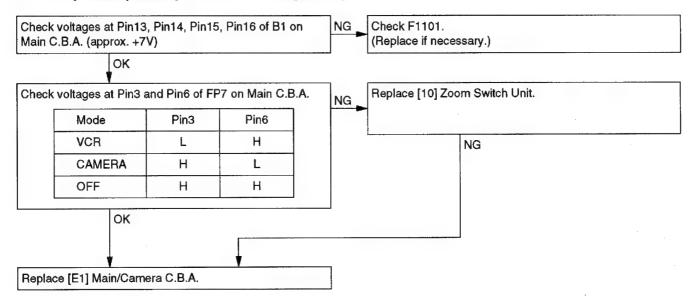


TROUBLESHOOTING HINTS

NOTE: Numbers with [] before each parts are the numbers used for them in Exploded Views and Replacement Parts Lists.

1. No Power

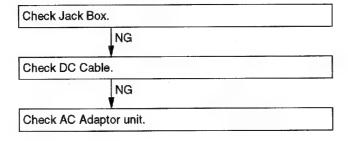
1-1. No power (Battery In and AC Adaptor In)



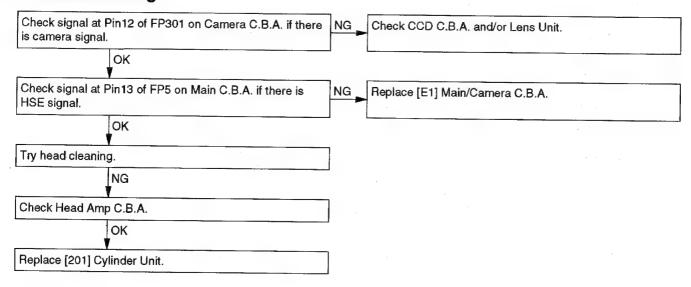
1-2. No power (Battery In only)

Replace Battery.

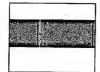
1-3. No power (AC Adaptor In only)



2. No Recording





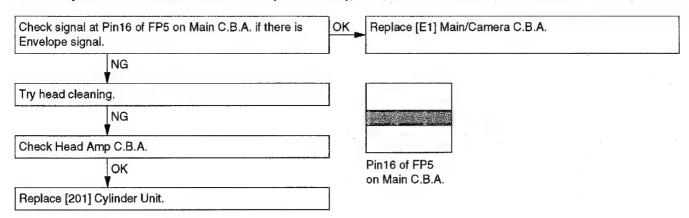


Pin12 of FP301 on Camera C.B.A.

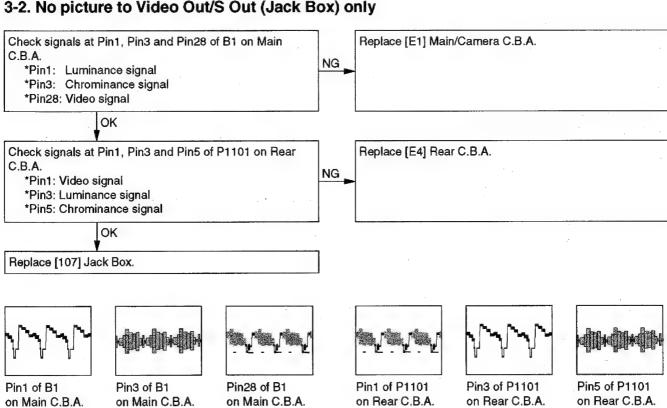
Pin13 of FP5 on Main C.B.A.

3. No picture in PB Mode

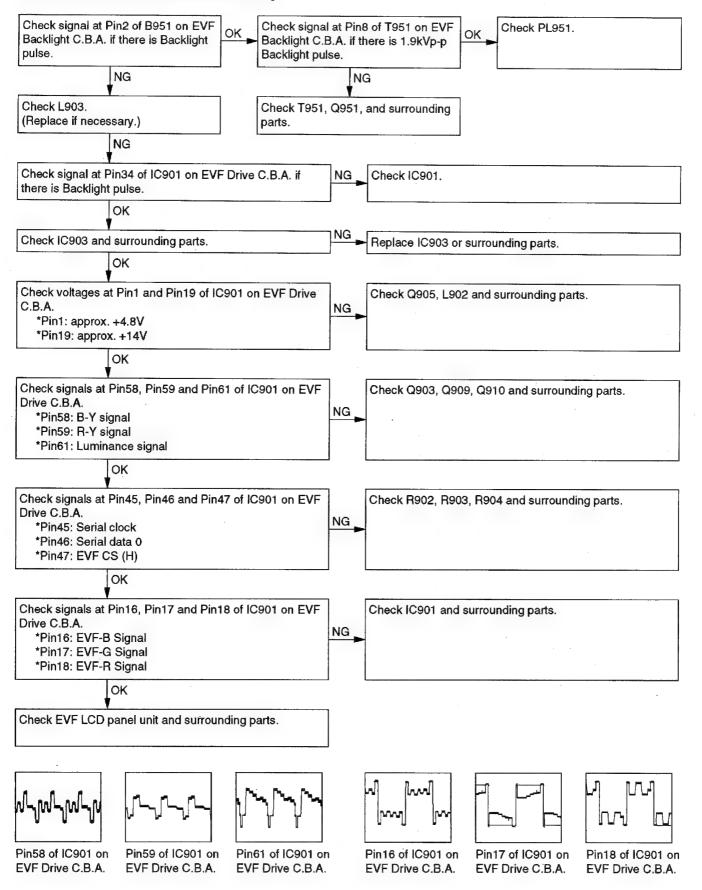
3-1. No picture to Video Out/S Out (Jack Box), LCD Monitor and EVF Monitor



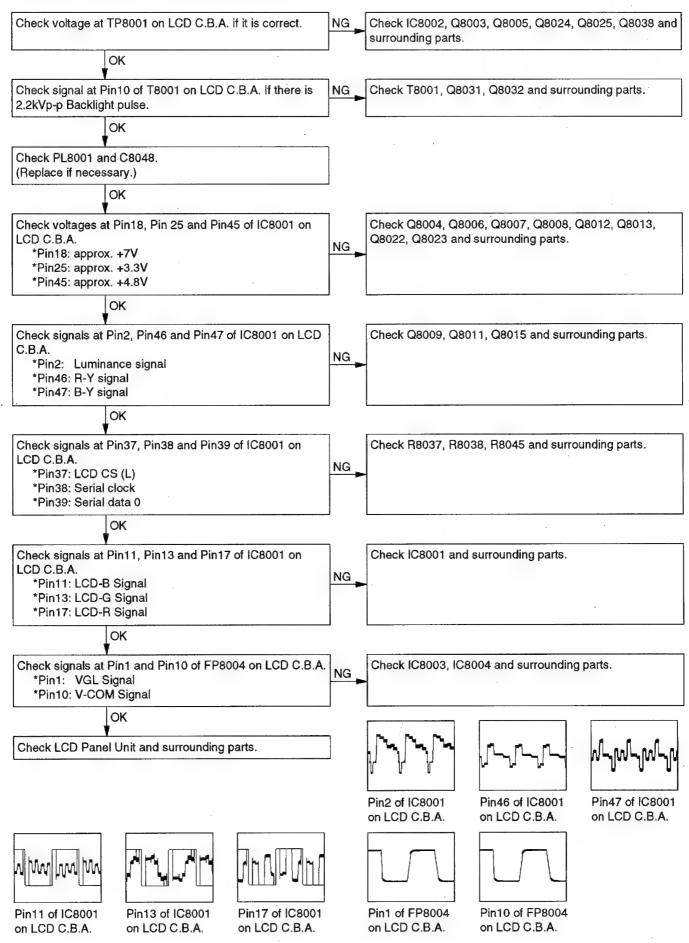
3-2. No picture to Video Out/S Out (Jack Box) only



3-3. No picture to EVF Monitor only



3-4. No picture to LCD Monitor only



4. No Recording Audio

of IC4801 on Front C.B.A.

on Camera C.B.A.

Check signal at Pin1, Pin7, Pin8 and Pin14 of IC4801 on Front C.B.A. if there is audio signal.

OK

Check signal at Pin2 and Pin22 of B4501 on Camera C.B.A. if there is audio signal.

OK

Replace [E1] Main/Camera C.B.A.

Pin1, Pin7, Pin8 and Pin14

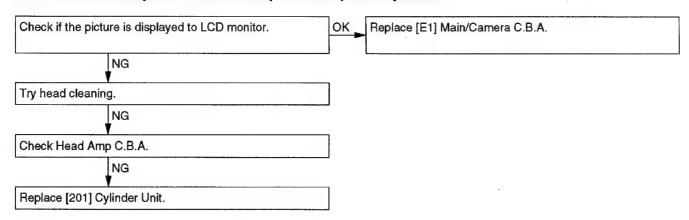
Pin2 and Pin22 of B4501

Pin2 and Pin22 of B4501

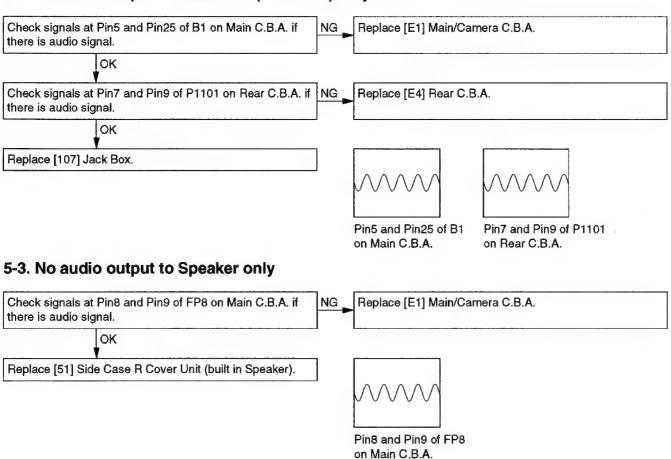
Pin2 and Pin22 of B4501

5. No Audio Output in PB Mode

5-1. No audio output to Audio out (Jack Box) and Speaker



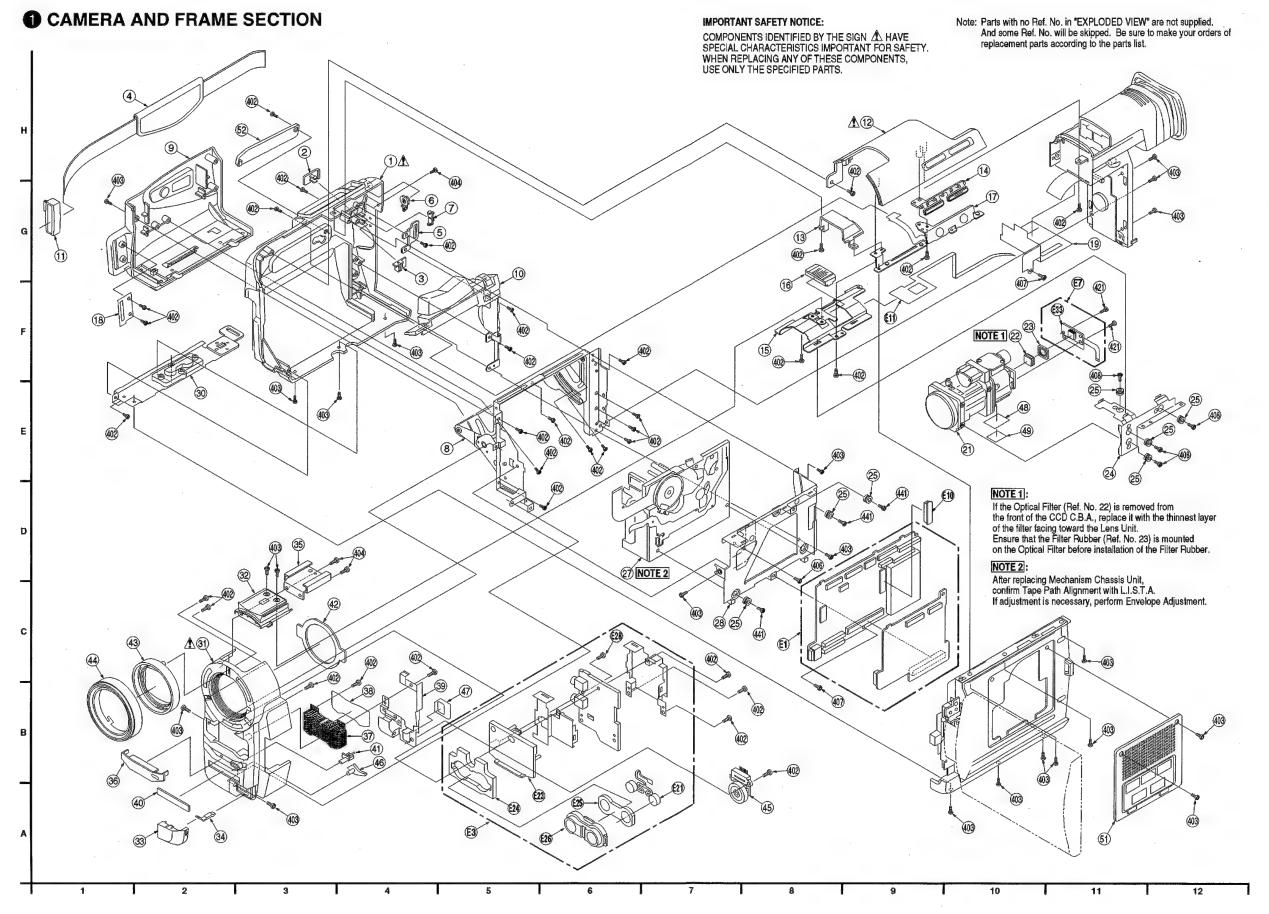
5-2. No audio output to Audio out (Jack Box) only

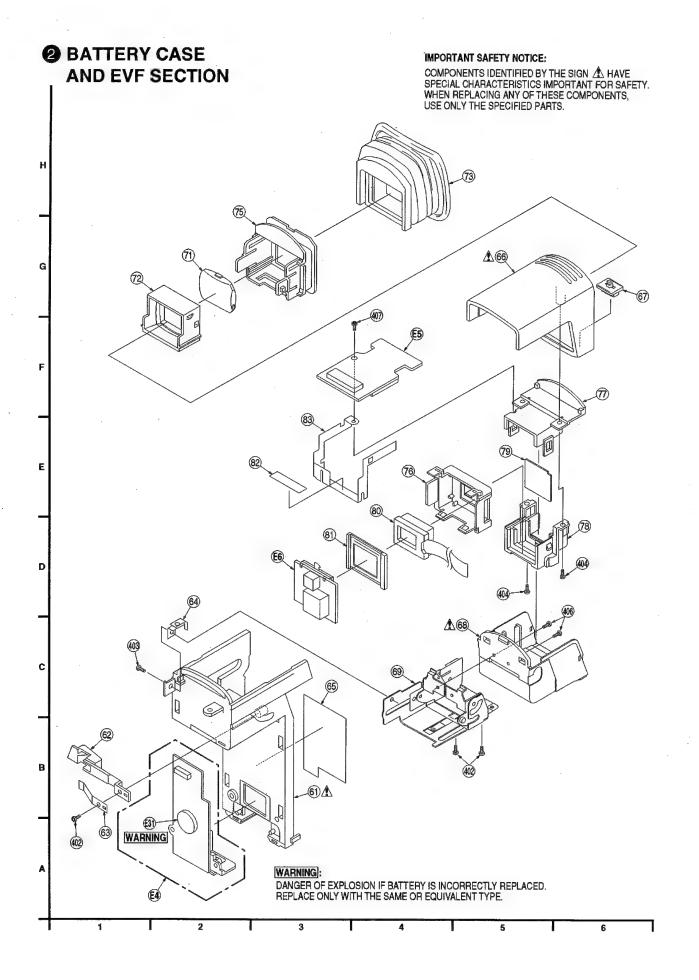


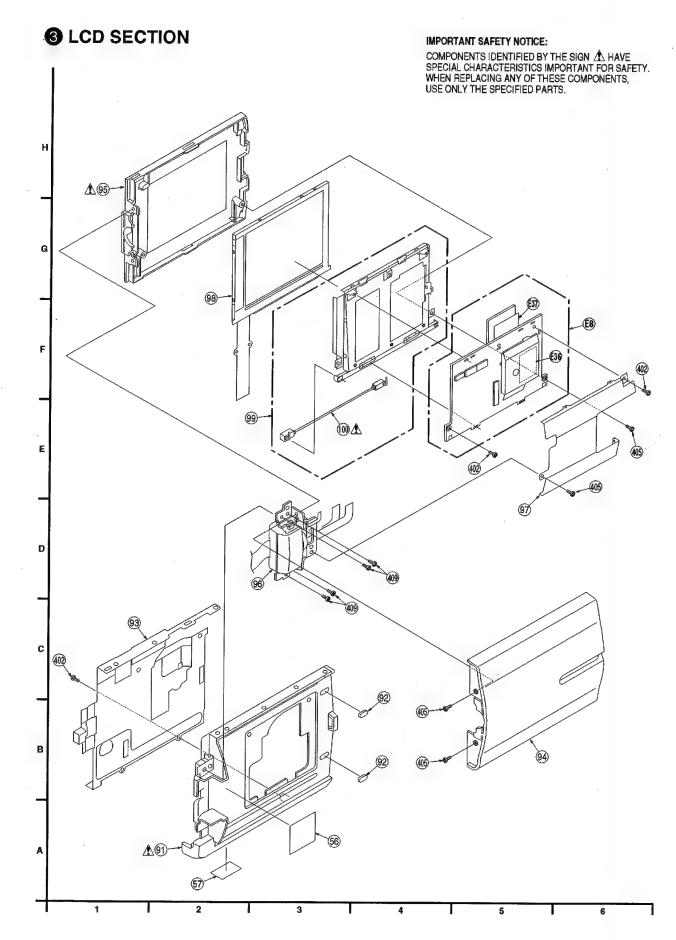
6. Auto Focus does not work

Replace [E1] Main/Camera C.B.A. and/or [21] Lens Unit.

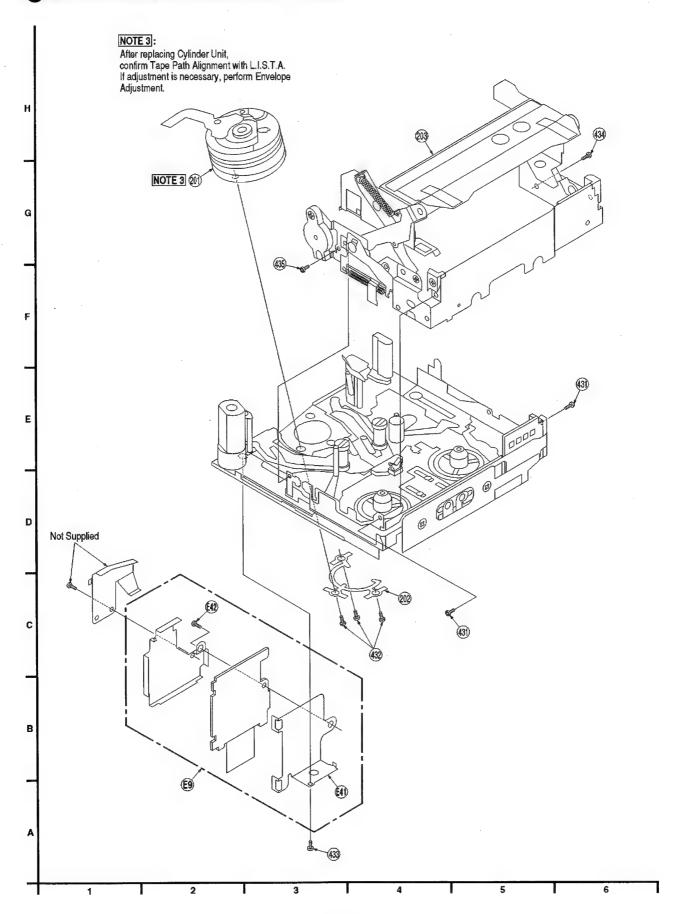
EXPLODED VIEWS







4 MECHANISM CHASSIS SECTION



6 PACKING PARTS AND IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SIGN A HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS. **ACCESSORIES SECTION** To Prevent possible burn hazard, disconnect this unit and allow lamp to cool before replacing. Replace only with VLLW0023 lamp, to reduce the risk of fire. Н DANGER **1**€ (15) G Not Supplied Е 109 Not Supplied D Not Supplied C В

REPLACEMENT PARTS LISTS

BEFORE REPLACING PARTS, READ THE FOLLOWING:

REPLACEMENT NOTES

General Notes

 Use only original replacement parts:
 To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list.

2. IMPORTANT SAFETY NOTICE

Components identified by the sign A have special characteristics important for safety. When replacing any of these components, use only the specified parts.

SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DE-

VICES" section of this service manual.

Parts with no Ref. No. in "EXPLODED VIEW" are not supplied. And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the

parts list.
Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.

Parts with mark "VED" in the Remarks column are supplied from VED. Others are supplied from MKE.

Mechanical Replacement Notes

1. Section No. of parts shown in Exploded Views are indicated in the Remarks column. Mechanism Chassis Unit (Ref. No. 27) and

- Cylinder Unit (Ref. No. 201) replacement note: After replacing Mechanism Chassis Unit or Cylinder Unit, confirm Tape Path Alignment with L.I.S.T.A. If adjustment is necessary, perform Envelope Adjustment.
- Lamp (Ref. No. 115) replacement note: DANGER: To Prevent possible burn hazard, disconnect this unit and allow lamp to cool before replacing.
 Replace only with VLLW0023 lamp, to reduce the risk of fire.

Electrical Replacement Notes

1. Item numbers with capital letter E (Example: E1, E2,...) in the Ref. No. column are shown in the exploded views. The E item numbers are also printed on the same page at the top of the column.

The parts with "■" mark are supplied individually or as a unit. The parts with "□" mark are supplied as a unit.

(individual parts are not supplied.)

Unless otherwise specified; All resistors are in ohms, 1/4W, +/-5%, carbon, K = 1,000 ohm, M = 1,000 kohm. All capacitors are in microfarads, P = micromicrofarad, +/-10% All coils are in microhenries, M = 1,000 microhenry, +/-10%.

4. Abbreviation

RTL: Retention Time Limited This indicates that the retention time is limited for

this item. After the discontinuation of this item in

production, it will no longer be available. NR: Non Repairable Board Ass'y MGF CHIP: Metal Glaze Film Chip C CHIP: Ceramic Chip
COMPLX CMP: Complex Component
W FLMPRF: Wirewound Flameproof

C.B.A.: Circuit Board Assembly P.C.B.: Printed Circuit Board

E.S.D.: Electrostatically Sensitive Devices

SERVICE OF CHIP PARTS

When servicing chip parts, please use a soldering iron of less than 30 watts. Refer to "IC, TRANSISTOR AND CHIP PART INFORMATION" page.
The parts with "●" are 0 ohm resistor. When replacing,

a wire can be substituted for a 0 ohm resistor.

Main/Camera C.B.A. (Ref. No. E1) replacement note: Main/Camera C.B.A. consists of Main and Camera C.B.A.s. When servicing, replace both C.B.A.s at the

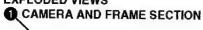
When replacing the Main/Camera C.B.A., be sure to write the data to EEPROM (IC2005) on Main C.B.A. and

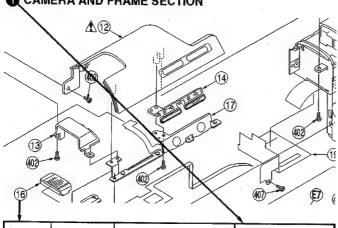
EEPROM (IC303) on Camera C.B.A.

Battery (Ref. No. E31) replacement note:
WARNING: DANGER OF EXPLOSION IF BATTERY IS
INCORRECTLY REPLACED. REPLACE ONLY WITH
THE SAME OR EQUIVALENT TYPE.

MECHANICAL REPLACEMENT PARTS LIST

<The complete Exploded Views are shown in this manual.>
EXPLODED VIEWS





Ref. No.	Part No.	Part Name	Remarks
	 	MECHANISM PARTS ON C	HASSIS
		MEET WITHOUT ATTO ON O	(Section No.)
1	VKMW1786	SIDE CASE L, ABS RESIN	∆ 1
2	VGTW0598	BATTERY EJECT KNOB	
3	VMDW0501	BATTERY LOCK PIECE	1 1
4	VFBW0084	HAND STRAP, POLYPROPYLENE	1
5	VMAW0738	STRAP ANGLE A	
6	VGUWØ188	MENU BUTTON	1
7	VGLW0087	POWER PANEL LIGHT	1
8	VXAW0196A	CASSETTE ANGLE UNIT	1
9	VYKW3109C		1
10		CASSETTE COVER UNIT	1
	VEQW0285	ZOOM SWITCH UNIT	1
11	VGQW0075	LENS CAP HOLDER	1
12	VKMW1779	TOP CASE, ABS RESIN	∆ 1
13 .	VKMW1746	LIGHT SHOE CASE, ABS RESIN	1
14	VGUW0187	TOP OPERATION KNOB	1
15	VMAW0715	TOP ANGLE	1
16	VJSW0036	LIGHT TERMINAL	1
17	VEQW0286	TOP OPERATION UNIT	1
18	VMAW0755	STRAP ANGLE C	1
19	VMZW0671	CCD BARRIER	1
21	VXNW0016	LENS UNIT	1
22	VFLW0449	FILTER	1
23	VMGW0213	FILTER RUBBER	1
24	VMAW0714	LENS ANGLE	1
25	VMG1107	MECHANISM DAMPER RUBBER	1
27	VXYW0198	MECHANISM CHASSIS UNIT	1
28	VMAW0705	MECHANISM FRAME	1
30	VXAW0197	MAIN FRAME UNIT	1
31	VKMW1778	FRONT CASE, ABS RESIN	∆ 1
32	VKMW1780	LIGHT SHOE COVER	1
33	VKMW1781	TERMINAL COVER	1
34	VKCW0003	HINGE	1
35	VMAW0716	SHOE	1
36	VGLW0086	INFRARED PANEL	1
37	VKNW0082	MICROPHONE NET	1
38	VGQW0073	MICROPHONE SHEET, NYLON+RAYON	1
39	VSCW0936	GND PLATE, STEEL	1
40	VGBW0098	BADGE, NI	1
41	VGLW0085	TALLY PANEL	1
42	VMGW0224	LENS INSULATER	1
43	VMDW0508		
44	VYKW3111	HOOD SCREW, PLASTIC LENS RING UNIT	1
45 .	VRVW0030		1
73	DCOMINA	MANUAL FOCUS VARIABLE RESISTOR UNIT	1
46	VGLW0094	INFRARED PANEL LIGHT	1
47	VMZW0669	SPACER	1
48	VMZW0672	AUDIO/VIDEO SHEET, POLYVINYL	1
		CHRORIDE	-
49	VMZW0673	WEIGHT SHEET, STEEL	1
		remain similar partition	*

		<u> </u>	<u> </u>
Ref. No.	Part No.	Part Name SIDE CASE R COVER UNIT	Remarks
52	VKFW0063	LEFT COVER	1
56			1
57	VQLW2021 VQLW2023	CAUTION LABEL A	3
61	VKMW1736	CAUTION LABEL B	3
62	VHLW0109	BATTERY CASE, ABS RESIN	<u> </u>
63		BATTERY EJECT PIECE	2
	VMCW0020	BATTERY EJECT SPRING	2
64	VSCW0945	ELECTRONIC VIEWFINDER ESD	2
	<u> </u>	ANGLE	
65	VQLW2020	BATTERY ATTACHMENT LABEL	2
66	VKMW1788	ELECTRONIC VIEWFINDER CASE A,	∆ 2
,		ABS RESIN	
67	VGTW0600	EYE SIGHT KNOB	2
68	VKMW1742	ELECTRONIC VIEWFINDER CASE B,	∆ 2
		ABS RESIN	
69	VXAWØ198EA	ELECTRONIC VIEWFINDER BASE	2
		ANGLE UNIT	
71	VFLW0450	ELECTRONIC VIEWFINDER LENS	2
72	VM0W0502	LENS HOLDER	2
73	VMGW0221	EYE CAP	2
75	VMDW0503	EYE CAP HOLDER	
76			2
	VMDW0506	ELECTRONIC VIEWFINDER LCD	2
77	MADWATA 4	HOLDER	
77	VMDW0504	ELECTRONIC VIEWFINDER PROTECT	2
70		В	
78	VMDW0505	ELECTRONIC VIEWFINDER PROTECT	2
		A·	
79	VDLW0003	POLARIZER	2
80	MCL0512803	ELECTRONIC VIEWFINDER LCD	2
		PANEL UNIT	
81	VMGW0225	ELECTRONIC VIEWFINDER RUBBER	2
82	VMZW0662	SPACER	2
83	VMAW0741	ELECTRONIC VIEWFINDER FIXING	2
		ANGLE A	
91	VKMW1733	SIDE CASE R, ABS RESIN	∆ 3
92	VMFW0142	BUFFER CUSHION, POLYURETHANE	
93	VMAW0742		3
94		SHIELD PLATE, STEEL	3
94	VYKW3116	LIQUID CRYSTAL DISPLAY CASE A	3
		UNIT	
95	VKMW1739	LIQUID CRYSTAL DISPLAY CASE B,	∆ 3.
		ABS RESIN	
96	VXAW0190	LIQUID CRYSTAL DISPLAY SHAFT	3
		UNIT	
97	VSCW0940	LIQUID CRYSTAL DISPLAY SHIELD	3
		CASE, STEEL	
98	VXYW0201	LIQUID CRYSTAL DISPLAY PANEL	3
		UNIT	
99	VXYW0202	LEAD LIGHT PANEL UNIT	3
100	VLLW0019	LAMP UNIT	∆ 3
101	VPFW0052	BAG, POLYETHYLENE	5
102	VPNW0048	CUSHION, PAPER	5
103	VPGW0738	PACKING CASE, PAPER	5
1.04	VPGW0740	ACCESSORY PACKING CASE, PAPER	5
105	VYCW0214	SHOULDER STRAP, POLYPROPYLENE	
106		LENS CAP UNIT	5
.07	VS0W0042	JACK BOX	
108	VJAW0042		5
		DC CABLE W/PLUG	5
109	VJAW0044	AC CABLE W/PLUG	<u> </u>
		ENHANCEMENT LIGHT UNIT	5
		FAN BAG	5
112		AUDIO/VIDEO CABLE W/PLUG	5
	VSQW0044	INFRARED REMOTE CONTROL UNIT	5
	VS8W0004	BATTERY UNIT	5
15	VLLW0023	LAMP	∆ 5
201	VEG1450	CYLINDER UNIT	4
202		CYLINDER SPRING	4
		CASSETTE UP UNIT	4

Ref. No.	Part No.	Part Name	Remarks
-	 	SCREWS	
402	XQN2+BJ4FXK	SCREW, STEEL	1,2,3
403	XQN2+BF4FXK	SCREW, STEEL	1,2
404	XQN2+BJ5FXK	SCREW, STEEL	1,2
405	XQN2+8F3FXK	SCREW, STEEL	3
406	XQN16+CF25FU	SCREW, STEEL	1,2
407 408	XQNZ+BF4FN VHDW0120	SCREW, STEEL	<u>1,Z</u>
409		SCREW, STEEL	1
421	XQN2+CJ6 XQN16+CJ6	SCREW,STEEL SCREW,STEEL	3
431	XQN14+B12FNK	SCREW, STEEL	4
432	VHD1156	SCREW, STEEL	4
433	XQN16+B2	SCREW, STEEL	4
434	XQN14+B2FNK	SCREW, STEEL	4
435	VHDW0126	SCREW, STEEL	4
441	VHD1133	SCREW, STEEL	1
		SERVICE FIXTURE AND TO	OLS
	VFK1217	49% TRANSMISSION TAPE	VED
	VFMB010EHS	COLOR BAR STANDARD TAPE	VED
	VFMB000EHSM	LINEAR ALIGNMENT TAPE	VED
	LSUQ0003	DVC HEAD CLEANING TAPE	CHOT CHOOL TOTAL
	L CUL COLL	REEL FG ADJUSTMENT CASSETTE	(NOT SUPPLIED)
	LSUA0014	EXTENSION CABLE 120PIN	
	LSUA0015 LSUA0016	EXTENSION CABLE SPIN EXTENSION CABLE 10PIN	
	LSUA0017	 	
	LSUA0017 LSUA0018	EXTENSION CABLE 18PIN	
	LSUA0019	EXTENSION CABLE 24PIN EXTENSION CABLE 8PIN	
	VEQW0285	ZOOM SWITCH UNIT	
	VEQW0286	TOP OPERATION UNIT -	
	*EQ#6240	INTERFACE BOARD FOR ELECTRICAL	(NOT SUPPLIED)
		ADJUSTMENT	(NOT SOTTERED)
		INTER LINK CABLE	(NOT SUPPLIED)
		CAMERA CONNECTING CABLE	(NOT SUPPLIED)
	VFK1278	POST HEIGHT ADJUSTMENT FIXTURE	VED
	VFK1164TFWC2	WHITE CHART	VED
	VFK1164TFCB2	COLOR BAR CHART	. VED
	VFKS002Y	LIGHT BOX AND AC ADAPTOR	(AC ADAPTOR IS
			NOT SUPPLIED)
	VFK1164TCM02	INFINITY LENS	· VED
		(WITH FOCUS CHART)	
	VFK1164TAR43	43mm RING	. VED
		COLOR CONVERSION FILTER (C10)	(NOT SUPPLIED)
	VFK1164TFCT2	COLOR CONVERSION FILTER (C14)	VED
		MIC READER (AC 100V)	(NOT SUPPLIED)
		SATELLITE BOX (AC 100V)	(NOT SUPPLIED)
		ATF I/F (AC 100V)	(NOT SUPPLIED)
		RS-232C CABLE	(NOT SUPPLIED)
. *		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
	-		(NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE 80ARD FOR L.I.S.T.A. PC-EVR ADJUSTMENT PROGRAM	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE BOARD FOR L.I.S.T.A.	(NOT SUPPLIED) (NOT SUPPLIED)
		INTERFACE 80ARD FOR L.I.S.T.A. PC-EVR ADJUSTMENT PROGRAM	(NOT SUPPLIED) (NOT SUPPLIED)

NOTE: Parts with mark "VED" in the Remarks column are supplied from VED. Others are supplied from MKE.

ELECTRICAL REPLACEMENT PARTS LIST

	Part No.	Part Name	Remarks
		PRINTED CIRCUIT BOARD ASS	EMBI V
E1	VEQW0302	MAIN/CAMERA C.B.A. NR	1
£3	VXMW0111	FRONT C.B.A.	■ RTL.
E4	VEPW1653A1	REAR C.B.A.	RTL
£5	VEPW1654A1	ELECTRONIC VIEWFINDER DRIVE	E.S.D. RTL
		C.B.A.	= L.3.0. KIL
E6	VEPW1655A1	ELECTRONIC VIEWFINDER	■ RTL
		BACKLIGHT C.B.A.	
E7	VEQW0284	CCD C.B.A.	■ E.S.D. RTL
E8	VEPW1651A1	LIQUID CRYSTAL DISPLAY C.B.A.	RTL
E9	VEQWØ289	HEAD AMP C.B.A.	RTL
E10	VEPW1665A1	SHORT JIG C.B.A. NR	
		FRONT C.B.A.	
		INTEGRATED CIRCUITS	
IC4801	NJM2112V-TE1	IC, LINEAR EQUALIZER AMP	
IC6501	VEK8283	INFRARED RECEIVER	
		TRANSISTORS	
Q4801	MSD1819A(R)	CHIP	
	OR 2SC4081T106R	CHEP	
	OR 2SD1819A	CHIP	
	OR 25D1819AI	CHIP	
Q4802	DTC124EU	CHIP	
	OR MUN5212T1	CHIP	
	OR UN5212	CHIP	
Q4803	MSD1819A(R)	CHIP	
	OR 2SC4081T106R	****	
	OR 2SD1819A	CHIP	
	OR 2SD1819AI	CHIP	
Q4804	DTC124EU	CHIP	
	OR MUN5212T1	CHIP	
	OR UN5212	CHIP	
Q4805	2SC3929	CHIP	
	OR 2SC4081LNTE	CHIP_	
	OR 2SD1819(S)	CHIP	
24000	OR 2SD1819A(S)	CHIP	
Q4806	MSB1218A(R)	CHIP	
	OR 2SA1576T106R		
	OR 25B1218A	CHIP	
1007	OR ZSB1218AI	CHIP	
24807	2SC3929	CHIP	
		CHIP	
	OR 2SD1819(S)	CHIP	
24808	OR 2SD1819A(S)	CHIP	
1000	MSB1218A(R)	CHIP	
	OR 25A1576T106R		
		CHIP	
		CHIP	
4.889			
4809		CHIP	
4809	OR 25C4081T106R	CHIP	
24809	OR 2SC4081T106R OR 2SD1819A	CHIP CHIP	
	OR 25C4081T106R OR 25D1819A OR 25D1819AI	CHIP CHIP CHIP	
	OR 25C4081T106R OR 25D1819A OR 25D1819AI MSD1819A(R)	CHIP CHIP CHIP CHIP	
	OR 25C4081T106R OR 25D1819A OR 25D1819AI MSD1819A(R) OR 25C4081T106R	CHIP CHIP CHIP CHIP CHIP	
	OR 25C4081T106R OR 2SD1819A OR 2SD1819AI MSD1819A(R) OR 2SC4081T106R OR 2SD1819A	CHIP CHIP CHIP CHIP CHIP CHIP	
4810	OR 25C4081T106R OR 25D1819A OR 25D1819AI MSD1819A(R) OR 25C4081T106R OR 25D1819A OR 25D1819AI	CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
4810	OR 25C4081T106R OR 25D1819A OR 25D1819AI MSD1819A(R) OR 25C4081T106R OR 25D1819A OR 25D1819AI MSB1218A(R)	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
4810	OR 25C4881T106R OR 25D1819A OR 25D1819AI MSD1819A(R) OR 25C4081T106R OR 25D1819A OR 25D1819A OR 25D1819AI MSB1218A(R) OR 25A1576T106R	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
4810	OR 25C4881T106R OR 25D1819A OR 25D1819AI MSD1819A(R) OR 25C4081T106R OR 25D1819A OR 25D1819AI MSB1218A(R) OR 25D1819AI MSB1218A(R) OR 25B1218A	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
4810	OR 25C4081T106R OR 25D1819A OR 25D1819AI MSD1819A(R) OR 25C4081T106R OR 25D1819A OR 25D1819AI MSD1218A(R) OR 25D1819AI MSD1218A(R) OR 25B1218A OR 25B1218A OR 25B1218AI	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
4810	OR 25C4881T106R OR 25D1819A OR 25D1819AI OR 25D1819AI OR 25D1819AI OR 25D1819A OR 25D1819A OR 25D1819A OR 25D1819AI MSB1218A(R) OR 2581576T106R OR 2581218AI OR 2581218AI NSB1218AI NSB1218AIR)	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
4810	OR 25C4981T106R OR 25D1819A OR 25D1819AI MSD1819A(R) OR 25C1819AI OR 25D1819A OR 25D1819A OR 25D1819A OR 25D1819AI MSB1218A(R) OR 25B1218A OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI OR 25B1218AI OR 25B1218AI OR 25B1218AI	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
24810 24811 24812	OR 25C4981T106R OR 25D1819A OR 25D1819AI OR 25D1819AI MSD1819A(R) OR 25C4981T106R OR 25D1819A OR 25D1819AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218A MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218A	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
4810 4811	OR 25C4981T106R OR 25D1819A OR 25D1819AI OR 25D1819AI MSD1819A(R) OR 25C4981T106R OR 25D1819A OR 25D1819AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218A MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218A	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
4810 4811	OR 25C4981T106R OR 25D1819A OR 25D1819AI OR 25D1819AI MSD1819A(R) OR 25C4981T106R OR 25D1819A OR 25D1819AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218A MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218A	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
4810	OR 25C4981T106R OR 25D1819A OR 25D1819AI OR 25D1819AI MSD1819A(R) OR 25C4981T106R OR 25D1819A OR 25D1819AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218A MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218A	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
4810	OR 25C4981T106R OR 25D1819A OR 25D1819AI OR 25D1819AI MSD1819A(R) OR 25C4981T106R OR 25D1819A OR 25D1819AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218A MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218AI MSB1218A(R) OR 25B1218A	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	

Ref. No.	Part No.	Part Name	Remarks
		DIODES	
D4803	DA204U	CHIP	
	OR MA143	CHIP	
D4804	DA204U	CHIP	
	OR MA143	CHIP	100
D6501	LN1251CAL-TR	TALLY LED CHIP	
	OR SMLØ10LT-MN	P TALLY LED CHIP	
		RESISTORS	***
R4801	VRJSD3D3901	MGF CHIP +-0.5% 1/16W 3.9K	
R4802	VRJSD3D3901	MGF CHIP +-0.5% 1/16W 3.9K	
R4803	ERJ3GEYJ333V	MGF CHIP 1/16W 33K	
R4804	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R4805	ERJ3GEYJ154V	MGF CHIP 1/16W 150K	
R4806	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R4807	ERJ3GEYJ154V	MGF CHIP 1/16W 150K	
R4808	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R4809	ERJ3GEYJ103V	MGF CHIP 1/16W 16K	
R4810	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
R4811 R4812	ERJ3GEYJ223V	MGF CHIP 1/16W 22K	
R4813	ERJ3GEYJ154V ERJ3GEYJ473V	MGF CHIP 1/16W 150K MGF CHIP 1/16W 47K	
R4814	ERJ3GEYJ223V		
R4815	ERJ3GEYJ223V ERJ3GEYJ333V	MGF CHIP 1/16W 22K MGF CHIP 1/16W 33K	
R4816	ERJ3GEYJ353V		
R4817	ERJ3GEYJ103V	MGF CHIP 1/16W 150K MGF CHIP 1/16W 10K	
24818	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
24819	ERJ3GEYJ333V	MGF CHIP 1/16W 33K	
34820	ERJ3GEYJ104V	MGF CHIP 1/16W 100K	
14821	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
84823	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
R4824	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
4825	ERJ3GEYJ911V	MGF CHIP . 1/16W 910	
4826	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
4828	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
14829	ERJ3GEYJ153V	MGF CHIP 1/16W 15K	
4830	ERJ3GEYJ911V	MGF CHIP 1/16W 910	
4831	ERJ3GEYJ471V	MGF CHIP 1/16W 470	
4832	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
4833	VRJSD3D1503	MGF CHIP +-0.5% 1/16W 150K	
4834	VRJS03D5602	MGF CHIP +-0.5% 1/16W 56K	
4835	ERJ3GEYJ332V	MGF CHIP 1/16W 3.3K	
4836	ERJ3GEYJ562V	MGF CHIP 1/16W 5.6K	
4837	ERJ3GEYJ181V	MGF CHIP 1/16W 180	
4838	ERJ3GEYJ471V	MGF CHIP 1/16W 470	
4839	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
4840	VRJSD3D1503	MGF CHIP +-0.5% 1/16W 150K	
4841	VRJSD3D5602	MGF CHIP +-0.5% 1/16W 56K	
4842	ERJ3GEYJ332V	MGF CHIP 1/16W 3.3K	
4843 4844	ERJ3GEYJ562V	MGF CHIP 1/16W 5.6K	
484 4 4845	ERJ3GEYJ181V	MGF CHIP 1/16W 189	
4846	ERJ3GEYJ222V ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K MGF CHIP 1/16W 2.2K	
4856	ERJ3GEYJ472V	MGF CHIP 1/16W 2.2K MGF CHIP 1/16W 4.7K	
4857	ERJ3GEYJ472V	MGF CHIP 1/16W 4.7K	
6501	ERJ3GEYJ561V	MGF CHIP 1/16W 560	
		CARACITORS	
4801	ECHV1H1 G2VBV	CAPACITORS	
4802	ECUV1H102KBV	C CHIP 50V 1000P	
4803	ECUV1H102KBV ECUV1C473KBV	C CHIP 50V 1000P C CHIP 16V 0.047	· · · · · · · · · · · · · · · · · · ·
4804	ECUVIC473KBV		
4805	MCUV1C333KBV	C CHIP 16V 0.015 C CHIP 16V 0.033	
4806	ECUV1A154KBV	C CHIP 10V 0.15	
4807	ECUV1H331KBV	C CHIP 50V 330P	
4808	ECUV1H472KBV	C CHIP 50V 4700P	
4809	ECUV1C153KBV	C CHIP 16V 0.015	
	ECUV1C473KBV		
	ECUV1H331KBV		
4812	ECUVIA154KBV		
	MCUV1C333KBV	C CHIP 10V 0.15 C CHIP 16V 0.033	
4813		10V W.W35	
4813 4814 4815	ECUV1H472KBV	C CHIP 50V 4700P	
4814 4815			

*NOTE: When replacing the Main/Camera C.B.A., be sure to write the data to EEPROM.

(E21, E23, E	£24, £25, £26, £28	3)		(E31)		
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	
C4818	MCUV1E273KBV	C CHIP 25V 0.027	•			
C4819	ECST1CY105	TANTALUM CHIP 16V 1				DIOD
C4820	ECUV1H102KBV	C CHIP 50V 1000P		D1101	RD12S-B-T1	ZENER
C4821	NMA@G336MTR	ELECTROLYTIC CHIP 4V 33		D1102	RD12S-8-T1	ZENER
C4822	ECST1CY105	TANTALUM CHIP 16V 1		D1103	DAPZØZUT	CHIP
C4823	ECUV1H102KBV	C CHIP 50V 1000P			OR MA141WA	CHIP
C4824	NMA0G336MTR	ELECTROLYTIC CHIP 4V 33			OR MA142WA	CHIP
C4825	NMA@J226MTR	ELECTROLYTIC CHIP 6.3V 22			OR MA142WAI	CHIP
C4826	ECUV1E103KBV	C CHIP 25V 0.01		1	OR M1MA142WA	CHIP
C4827	NMA0J226MTR			01104		_
				D1104	RD12S-B-T1	ZENER
C4828	NMA0J226MTR	ELECTROLYTIC CHIP 6.3V 22		D1105	RD12S-B-T1	ZENER
C6501	ECSTØJY106	TANTALUM CHIP 6.3V 10				
C6502	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1			<u> </u>	
					1	RES
				R1101	ERJ3GEYJ223V	MGF C
		FILTERS		R1102	ERJ8GEYJ681V	MGF C
FL4801	VLFS0596	FERRITE CHIP FILTER		R1104	ERJ8GEYJR56V	MGF C
FL4802	VLQW0028	10		R1105	ERJ8GEYJR56V	MGF C
FL4803	VLFS0596	FERRITE CHIP FILTER		R1106	ERJ3GEYJ103V	MGF C
				R1107	ERJ3GEYJ333V	MGF C
				R1108	ERJ3GEYJ102V	MGF C
	 	JACKS				_
11/4001	1//1/20200			R1109	ERJ3GEYJ223V	MGF C
JK4801	VJJS0368	MICROPHONE JACK SOCKET		R1110	ERJ3GEYJ223V	MGF C
JK4802	VJJW0066	JACK F.P.C.		R1111	ERJ3GEYJ223V	MGF C
				R1112	ERJ3GEYJ154V	MGF C
		,		R1113	ERJ3GEYJ472V	MGF C
		MISCELLANEOUS		R1114	ERJ3GEYJ102V	MGF C
				R1115	ERJ3GEYJ561V	MGF C
E21	VEKW1778	ELECTRIC CONDENSER MICROPHONE		R8001	ERJ3GEYØRØØV	MGF C
		UNIT		R8002	ERJ3GEYØRØØV	MGF C
E23	VMDW0500	MICROPHONE PIECE B		R8003	ERJ3GEYØRØØV	MGF C
E24	VMTW0030	MICROPHONE CUSHION,				-
E 6-4	AMILIMORNA			R8004	ERJ3GEYØRØØV	MGF C
FOF	144599222	POLYURETHANE		R8005	ERJ3GEYØRØØV	MGF C
E25	VMGW0222	MICROPHONE DAMPER		R8006	ERJ3GEYØRØØV	MGF C
E26	VMDW0499	MICROPHONE PIECE A		R8007	ERJ3GEYJ103V	MGF C
£28	XQN2+BJ4FXK	SCREW, STEEL				
				1		
						CAP
		REAR C.B.A.		C1101	ECUE1H103KBV	C CHI
			-	C1102	ECSTØJX226	TANTA
				C1103	ECUE1C104ZFV	C CHI
		TRANSISTORS		C1103	ECOETCIOASLA	C Chi
01101	OCHACAE STAY	INAMSISTONS				+
Q1101	2SA1615-ZT1K					
	OR 2SA1615-2T1L					PIN F
	OR 2SA1834TLR			B1101	VJP3644D028	BOARD
	OR 2SA1834TLS			P1101	V.JSW0037	CONNE
Q11 0 2	MSD1819A(R)	CHIP				
	OR 2SC4081T106R	CHIP				T
•	OR 2SD1819A	CHIP				FPC
	OR ZSD1819AI	CHIP		FP1101	VJS4013D005	FPC O
Q1103	MSB1218A(R)	CHIP				
· · · · · · · · · · · · · · · · · · ·	OR 2SA1576T106R				1	
	OR 2581218A	CHIP		—	1	FUSE
				E1101	VCEWGG44	+
04404	OR 25B1218AI	CHIP		F1101	VSFW0011	FUSE
Q1104	MSB1218A(R)	CHIP		F1102	VSFW0010	FUSE
	OR 2SA1576T106R			1		-
	OR 2581218A	CHIP				_
	OR 25B1218AI	CHIP				JACH
Q1105	MSD1819A(R)	CHIP		JK1101	VEK8300	BATTE
	OR 2SC4081T106R	CHIP				
	OR 2SD1819A	CHIP				
	OR 2SD1819AI	CHIP			1	MISC
Q1106	MSD1819A(R)	CHIP				1
ATT40				F 24	18 4 220 /455	
	OR 2SC4081T106R			E31	VL1220/1FC	BATTE
	OR 2SD1819A	CHIP				-
	OR 2SD1819AI	CHIP				
Q1107	DTC 144EU	CHIP				
	OR MUN5213	CHIP				
	OR UN5213	CHIP	1 117		1	
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(E31)					
Ref. No.	Part No.	Part Name)		Remarks
	-	DIODES			
D1101	DD125 P T1			121/	
D1101	RD12S-B-T1 RD12S-B-T1	ZENER CHIP ZENER CHIP		12V 12V	
D1102	DAPZØZUT	CHIP		174	
01103	OR MA141WA				
		CHIP			
	OR MA142WA	CHIP			
	OR MA142WAI	CHIP			
	OR M1MA142WA	CHIP			
D1104	RD12S-B-T1	ZENER CHIP		12V	
D1105	RD12S-B-T1	ZENER CHIP		127	
		RESISTORS			
R1101	ERJ3GEYJ223V	MGF CHIP	1/16W	22K	
R1102	ERJ8GEYJ681V	MGF CHIP	1/8W	680	
R1104	ERJ8GEYJR56V	MGF CHIP	1/8₩	0.56	
R1105	ERJ8GEYJR56V	MGF CHIP	1/8W	0.56	
R1106	ERJ3GEYJ103V	MGF CHIP	1/16W	10K	
R1107	ERJ3GEYJ333V	MGF CHIP	1/16W	33K	
	ERJ3GEYJ102V				
R1108 R1109	ERJ3GEYJ223V	MGF CHIP	1/16W	22K	
		~	1/16₩	22K	
R1110	ERJ3GEYJ223V	MGF CHIP	1/16₩	22K	
R1111	ERJ3GEYJ223V	MGF CHIP	1/16W	22K	
R1112	ERJ3GEYJ154V	MGF CHIP	1/16W		
R1113	ERJ3GEYJ472V	MGF CHIP	1/16W	4.7K	
R1114	ERJ3GEYJ102V	MGF CHIP	1/16W	1K	
R1115	ERJ3GEYJ561V	MGF CHIP	1/16W	560	
R8001	ERJ3GEYØRØØV	MGF CHIP	1/16W	0	•
R8002	ERJ3GEYØRØØV	MGF CHIP	1/16W	_	•
R8003	ERJ3GEYØRØØV	MGF CHIP	1/16W		•
R8004	ERJ3GEYØRØØV	MGF CHIP	1/16W		•
R8005	ERJ3GEYØRØØV	MGF CHIP	1/16W	0	
R8006					
	ERJ3GEYØRØØV	MGF CHIP	1/16W	0	•
R8007	ERJ3GEYJ103V	MGF CHIP	1/16W	10K	
		CAPACITORS			
C1101	ECUE1H103KBV	C CHIP	50V	0.01	
C1102	ECSTØJX226	TANTALUM CHIP	6.3V	22	
C1103	ECUE1C104ZFV	C CHIP +80%-20%	16V	0.1	
	ŀ				2020.000.000
		PIN HEADERS			
B1101	VJP3644D028	BOARD TO BOARD 28P			
P1101	VJSW0037	CONNECTOR 10P			
	1	-			
		EDC CONNECTOR			
*****		FPC CONNECTOR			
FP1101	VJS4013D005	FPC CONNECTOR 5P			
	-	· · · · · · · · · · · · · · · · · · ·			
		FUSE & PROTECTO	R		
F1101	VSFW0011	FUSE	32V	3A	A
F1102	VSFW0010	FUSE	63V	1.5A	Δ
,					
		JACKS			
JK1101	VEK8300	BATTERY CACHER			
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	+	MISCELL ANEOUS			l
		MISCELLANEOUS			
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E31	VL1220/1FC	BATTERY			
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OR XN1501 COMPLX CMP SI NPN CHIP	Ref. No.	Part No.	Part Name	Remarks
INTEGRATED CIRCUITS		<u> </u>	FLECTRONIC VIEWEINDER	
INTEGRATED CIRCUITS			+	
ICSPAIL AMESSZERIPA			Difficulty of the control of the con	
AMESSZENPIPA		1		
CO PAMEL INDICATION			INTEGRATED CIRCUITS	
DR ANZSZEWFIP CL LINEAR VIDEO STONAL PROCESS	IC901	AN2522FHPA	IC, LINEAR VIDEO SIGNAL PROCESS	
1.09 1.00			LCD PANEL INDICATION	
TC7514FTESL		OR AN2522NFHP		
IONERTER		<u> </u>		
TC7508FTE8SR TC_CMOS STANDARD LOGIC AND E.S.D.	IC902	TC7S14FTE85L		E.S.D.
CATE	T/002	TCTCOOFTFOFD		
Company Comp	10903	TC/SØ8FTE85K		E.S.D.
QS91			UNIC	
QS91				7. 34.4
OR MUNSZ1271			TRANSISTORS	
Q3802 Z581585 CHIP	Q9 01	DTC124EU	CHIP	
Q902		OR MUN5212T1	CHIP	
Q983			CHIP	
Q983	Q9 0 2			
OR 25C4881196R CHIP	0007			
OR 2501819A	FMEN			
OR 25D1819A1 CHIP				
COMPLX CMP SI NPN CHIP				
OR XN1501 COMPLX CMP ST NPN CHIP	Q904			
Q9905 Z5A1937K146R CHIP	-			
OR 258709A CHIP OR 258709AI CHIP OR 250819A(R) CHIP OR 250819A(R) CHIP OR 250819A CHIP OR 2581218A CHIP OR 2581218AI CHIP OR 2581218A CHIP OR 2581218AI CHIP OR WIS116 CHIP DIODES POPO6 MA728 CHIP DIODES POPO6 MA728 CHIP POPO7 ERJ3GEYJ102V MGF CHIP 1/16W 1K POPO6 ERJ3GEYJ102V MGF CHIP 1/16W 1K POPO6 ERJ3GEYJ102V MGF CHIP 1/16W 1K POPO6 ERJ3GEYJ102V MGF CHIP 1/16W 1K POPO7 ERJ3GEYJ102V MGF CHIP 1/16W 10K POPO7 ERJ3G	Q905			
OR 258709AI		OR 2SB709	CHIP	
Q998		OR 2SB709A	CHIP	
OR 2SC4881T106R CHIP OR 2SD1819A CHIP OR 2SB1218A CHIP OR 2SB1218A CHIP OR 2SB1218A CHIP OR 2SB1218A CHIP OR 2SB1218AI CHIP OR UNS116 CHIP OR UNS116 CHIP DIODES PROPER OR UNS116 CHIP OR UNS116 CH				
OR 25D1819A	Q908			
OR 25D1819AI				
Q9899 MSB1218A(R) CHIP				
OR 25A1576T106R CHIP	0989			4.4.
OR 2581218A OR 2581218AI OR 258	4303			
MSB1218A(R)				
DR 25A1576T186R CHIP OR 25B1218A CHIP OR 25B1218A CHIP OR 25B1218AI CHIP OR 25B1218AI CHIP OR UN5116 CHIP DIA143TU OR UN5116 CHIP DIODES DIODES DIODES DIODES DIODES RESISTORS RES		OR ZSB1218AI		
OR 2581218A CHEP OR 2581218AI CHEP OR 2581218AI CHEP OR UNS116 CHEP DIODES DIODES DIODES P906 MA728 CHEP P906 MA728 CHEP P907 ERJ3GEYJ102V MGF CHEP 1/16W 1K P908 ERJ3GEYJ102V MGF CHEP 1/16W 1K P908 ERJ3GEYJ102V MGF CHEP 1/16W 1K P908 ERJ3GEYJ102V MGF CHEP 1/16W 1K P909 ERJ3GEYJ102V MGF CHEP 1/16W 1C P909 ERJ3GEYJ102V MGF CHEP 1/16W 1C P909 ERJ3GEYJ102V MGF CHEP 1/16W 1K P910 ERJ3GEYJ103V MGF CHEP 1/16W 1K P911 ERJ3GEYJ103V MGF CHEP 1/16W 1C P911 ERJ3GEYJ103V MGF CHEP 1/16W 1SOK P912 ERJ3GEYJ103V MGF CHEP 1/16W 1SOK P913 ERJ3GEYJ103V MGF CHEP 1/16W 1SOK P914 ERJ3GEYJ103V MGF CHEP 1/16W 1SOK P915 ERJ3GEYJ103V MGF CHEP 1/16W 1SOK P917 ERJ3GEYJ103V MGF CHEP 1/16W 1SOK P918 URUSD3D180Z MGF CHEP 1/16W 1SOK P919 URUSD3D180Z MGF CHEP 1/16W 1SOK P920 URUSD3D180Z MGF CHEP 1/16W 1SOK P921 URUSD3D180Z MGF CHEP 1/16W 1SOK P922 URUSD3D180Z MGF CHEP 1/16W 1SOK P923 ERJ3GEYJ10ZV MGF CHEP 1/16W 1K P924 ERJ3GEYJ10ZV MGF CHEP 1/16W 1K P925 ERJ3GEYJ10ZV MGF CHEP 1/16W 1K P929 ERJ3GEYJ10ZV MGF CHEP 1/16W 1K P929 ERJ3GEYJ10ZV MGF CHEP 1/16W 1K P929 ERJ3GEYJ10ZV MGF CHEP 1/16W 1K P931 ERJ3GEYJ10ZV MGF CHEP 1/16W 1K P9321 ERJ3GEYJ10ZV MGF CHEP 1/16W 1K	Q 91 0	MSB1218A(R)	CHIP	
OR 2581218AI CHIP OR UNS116		OR 2SA1576T106R	CHIP	
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DIODES D	0011			
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Page				
			DIODES	
	904	MA111	CHIP	
	0906	MA728	CHIP	
Page ERJ3GEYJ102V MGF CHIP 1/16W 1K Page ERJ3GEYJ102V MGF CHIP 1/16W 1CK Page ERJ3GEYJ102V MGF CHIP 1/16W 1CK Page ERJ3GEYJ102V MGF CHIP 1/16W 1K Page ERJ3GEYJ102V MGF CHIP 1/16W 1CK Page ERJ3GEYJ102V MGF CHIP 1/16W 1CK Page ERJ3GEYJ103V MGF CHIP 1/16W 1CK Page ERJ3GEYJ103V MGF CHIP 1/16W 330 Page ERJ3GEYJ103V MGF CHIP 1/16W 330 Page ERJ3GEYJ331V MGF CHIP 1/16W 3.9K Page ERJ3GEYJ103V MGF CHIP 1/16W 3.9K Page VRJSD3D1802 MGF CHIP -0.5% 1/16W 1.5K Page VRJSD3D1802 MGF CHIP -0.5% 1/16W 3.2K Page ERJ3GEYJ102V MGF CHIP 1/16W 1.5K Page Page Page 1/16W 1.5K Page Page Page Page Page Page Page	2004	ED TREEVERORY		
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1/16W 1/16	1904			
1/16W 1/26W 1/26	1905			
10 10 10 10 10 10 10 10	1906			
Page	1907	ERJ3GEYJ683V		
9311 ERJ3GEYJ154V MGF CHIP 1/16W 150K 9313 ERJ3GEYJ331V MGF CHIP 1/16W 330 9315 ERJ3GEYJ303V MGF CHIP 1/16W 10K 9317 ERJ3GEYJ392V MGF CHIP 1/16W 3.9K 9319 VRJSD3D1802 MGF CHIP +-0.5% 1/16W 18K 9320 VRJSD3D1801 MGF CHIP +-0.5% 1/16W 1.5K 9321 VRJSD3D8201 MGF CHIP +-0.5% 1/16W 3.2K 9324 ERJ3GEYJ222V MGF CHIP 1/16W 3.2K 9325 ERJ3GEYJ383V MGF CHIP 1/16W 18K 9326 ERJ3GEYJ183V MGF CHIP 1/16W 18K 9327 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9328 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9329 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9330 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9330 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9331 ERJ3GEYJ102V MGF CHIP 1/16W 1K	1908	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
913 ERJ3GEYJ331V MGF CHIP 1/16W 330 915 ERJ3GEYJ392V MGF CHIP 1/16W 10K 917 ERJ3GEYJ392V MGF CHIP 1/16W 10K 919 VRJSD3D1802 MGF CHIP +-0.5% 1/16W 1.5K 920 VRJSD3D1801 MGF CHIP +-0.5% 1/16W 1.5K 921 VRJSD3D8201 MGF CHIP +-0.5% 1/16W 8.2K 922 ERJ3GEYJ222V MGF CHIP 1/16W 2.2K 925 ERJ3GEYJ183V MGF CHIP 1/16W 1.8K 927 ERJ3GEYJ183V MGF CHIP 1/16W 1.8K 928 ERJ3GEYJ102V MGF CHIP 1/16W 1.8K 929 ERJ3GEYJ102V MGF CHIP 1/16W 1.8K 930 ERJ3GEYJ102V MGF CHIP 1/16W 1.8K 9310 ERJ3GEYJ102V MGF CHIP 1/16W 1.8K	R910			
915 ERJ3GEYJ103V MGF CHIP 1/16W 10K 917 ERJ3GEYJ392V MGF CHIP 1/16W 3.9K 919 VRJSD3D1802 MGF CHIP +-0.5% 1/16W 18K 920 VRJSD3D1501 MGF CHIP +-0.5% 1/16W 1.5K 921 VRJSD3D8201 MGF CHIP +-0.5% 1/16W 8.2K 924 ERJ3GEYJ222V MGF CHIP 1/16W 2.2K 925 ERJ3GEYJ102V MGF CHIP 1/16W 18K 927 ERJ3GEYJ102V MGF CHIP 1/16W 18K 928 ERJ3GEYJ102V MGF CHIP 1/16W 1K 929 ERJ3GEYJ102V MGF CHIP 1/16W 1K 929 ERJ3GEYJ102V MGF CHIP 1/16W 1K 930 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9310 ERJ3GEYJ102V MGF CHIP 1/16W 1K	911			
917 ERJ3GEYJ392V MGF CHIP 1/16W 3.9K 919 VRJSD3D1802 MGF CHIP +-0.5% 1/16W 18K 920 VRJSD3D1501 MGF CHIP +-0.5% 1/16W 1.5K 921 VRJSD3D8201 MGF CHIP +-0.5% 1/16W 3.2K 924 ERJ3GEYJ222V MGF CHIP 1/16W 2.2K 925 ERJ3GEYJ183V MGF CHIP 1/16W 18K 927 ERJ3GEYJ182V MGF CHIP 1/16W 1K 928 ERJ3GEYJ102V MGF CHIP 1/16W 1K 929 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9300 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9310 ERJ3GEYJ102V MGF CHIP 1/16W 1K	913			
919 VRJSD3D1802 MGF CHIP +-0.5% 1/16W 18K 920 VRJSD3D1501 MGF CHIP +-0.5% 1/16W 1.5K 921 VRJSD3D8201 MGF CHIP +-0.5% 1/16W 8.2K 924 ERJ3GEYJ222V MGF CHIP 1/16W 2.2K 925 ERJ3GEYJ182V MGF CHIP 1/16W 18K 926 ERJ3GEYJ102V MGF CHIP 1/16W 1K 927 ERJ3GEYJ102V MGF CHIP 1/16W 1K 928 ERJ3GEYJ102V MGF CHIP 1/16W 1K 929 ERJ3GEYJ102V MGF CHIP 1/16W 1K 930 ERJ3GEYJ102V MGF CHIP 1/16W 1K 931 ERJ3GEYJ102V MGF CHIP 1/16W 1K				
920 VRJSD3D1501 MGF CHIP +-0.5% 1/16W 1.5K 921 VRJSD3D8201 MGF CHIP +-0.5% 1/16W 8.2K 924 ERJ3GEYJ222V MGF CHIP 1/16W 2.2K 925 ERJ3GEYJ182V MGF CHIP 1/16W 18K 926 ERJ3GEYJ102V MGF CHIP 1/16W 1K 927 ERJ3GEYJ102V MGF CHIP 1/16W 1K 928 ERJ3GEYJ102V MGF CHIP 1/16W 1K 929 ERJ3GEYJ102V MGF CHIP 1/16W 1K 930 ERJ3GEYJ102V MGF CHIP 1/16W 1K 931 ERJ3GEYJ101V MGF CHIP 1/16W 1K				
921 VRJSD3D8201 MGF CHIP +-0.5% 1/16W 8.2K 924 ER3GEYJ222V MGF CHIP 1/16W 2.2K 925 ERJ3GEYJ183V MGF CHIP 1/16W 18K 927 ERJ3GEYJ182V MGF CHIP 1/16W 1K 928 ERJ3GEYJ102V MGF CHIP 1/16W 1K 929 ERJ3GEYJ102V MGF CHIP 1/16W 1K 930 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9310 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9311 ERJ3GEYJ101V MGF CHIP 1/16W 100				
924 ERJ3GEYJ222V MGF CHIP 1/16W 2.2K 925 ERJ3GEYJ183V MGF CHIP 1/16W 18K 927 ERJ3GEYJ102V MGF CHIP 1/16W 1K 928 ERJ3GEYJ102V MGF CHIP 1/16W 1K 929 ERJ3GEYJ102V MGF CHIP 1/16W 1K 930 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9310 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9311 ERJ3GEYJ101V MGF CHIP 1/16W 100	921			
925 ERJ3GEYJ183V MGF CHIP 1/16W 18K 927 ERJ3GEYJ102V MGF CHIP 1/16W 1K 928 ERJ3GEYJ102V MGF CHIP 1/16W 1K 929 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9300 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9310 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9311 ERJ3GEYJ101V MGF CHIP 1/16W 100	924			
927 ERJ3GEYJ102V MGF CHIP 1/16W 1K 928 ERJ3GEYJ102V MGF CHIP 1/16W 1K 929 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9300 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9310 ERJ3GEYJ102V MGF CHIP 1/16W 1K 9311 ERJ3GEYJ101V MGF CHIP 1/16W 100	925			
928 ERJ3GEYJ102V MGF CHIP 1/16W 1K 929 ERJ3GEYJ102V MGF CHIP 1/16W 1K 930 ERJ3GEYJ102V MGF CHIP 1/16W 1K 931 ERJ3GEYJ101V MGF CHIP 1/16W 100	1927			
930 ERJ3GEYJ102V MGF CHIP 1/16W 1K 931 ERJ3GEYJ101V MGF CHIP 1/16W 100	1928			
931 ERJ3GEYJ101V MGF CHIP 1/16W 100	929	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
	1930			
932 ERJ3GEYJ101V MGF CHIP 1/16W 100	1931			
	1932	ERJ3GEYJ101V	MGF CHIP 1/16W 100	

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Ref. No.	Part No.	Part Name	Remarks
R933	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R934	ERJ3GEYJ433V	MGF CHIP 1/16W 43K	
R937	ERJ3GEYJ473V	MGF CHIP 1/16W 47K	
R938	ERJ3GEYJ202V	MGF CHIP 1/16W 2K	
R939	ERJ3GEYJ332V	MGF CHIP 1/16W 3.3K	
R941	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
R942	ERJ3GEYJ681V	MGF CHIP 1/16W 680	
R943	VRJSD3D2702	MGF CHIP +-0.5% 1/16W 27K	
R944	VRJSD3D3301	MGF CHIP +-0.5% 1/16W 3.3K	
R945	VRJSD3D2202	MGF CHIP +-0.5% 1/16W 22K	
R946	ERJ3GEYJ101V	MGF CHIP 1/16W 100	
R948	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R949 R950	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
	ERJ3GEYJ102V	MGF CHIP 1/16W 1K	
R951 R954	ERJ3GEYJ222V	MGF CHIP 1/16W 2.2K	
1,954	ERJ3GEYJ103V	MGF CHIP 1/16W 10K	
		CAPACITORS	
C901	ECSTØJY106	TANTALUM CHIP 6.3V 10	
C902	VCUSQAC475KB		
C903	ECUV1E104ZFN		
C904	ECSTØJY475	C CHIP +80%-20% 25V 0.1 TANTALUM CHIP 6.3V 4.7	
C905	ECST0JY475	TANTALUM CHIP 6.3V 4.7	
C906	ECUVICIOSZEN	C CHIP +80%-20% 16V 1	
C907	ECUVICIO3ZFN	C CHIP +80%-20% 16V 0.1	
C908	ECUV1H222KBV	C CHIP +80%-20% 16V 0.1	
C909	ECSTØJY475	TANTALUM CHIP 6.3V 4.7	
C910	ECUV1C105ZFN	C CHIP +80%-20% 16V 1	
C911	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C912	ECUV1H152KBV	C CHIP 50V 1500P	
C913	ECSTØJX226	TANTALUM CHIP 6.3V 22	
C914	ECUV1C104KBV	C CHIP 16V 0.1	
C915	ECSTØJY106	TANTALUM CHIP 6.3V 10	
C916	ECSTØJY106	TANTALUM CHIP 6.3V 10	
C917	ECUV1A105ZFV	C CHIP +80%-20% 10V 1	
C918	VCUSQE105KB	C CHIP 25V 1	
C919	ECUV1A105ZFV	C CHIP +80%-20% 10V 1	
C920	ECUV1A105ZFV	C CHIP +80%-20% 10V 1	
C922	ECUV1H103ZFV	C CHIP . +80%-20% 50V 0.01	
C923	ECST1AY225	TANTALUM CHIP 10V 2.2	
C924	VCUSQAC475KB	C CHIP 16V 4.7	
C925	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C926	ECUV1H101JCV	C CHIP +-5% 50V 100P	
C928	ECUV1H471JCV	C CHIP +-5% SØV 470P	
C929	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
C930	ECST1AX226	TANTALUM CHIP 10V 22	
C931	ECUV1C104KBV	C CHIP 16V 0.1	
C932	ECUV1H560JCV	C CHIP +-5% 50V 56P	
C933	ECUV1H560JCV	C CHIP +-5% 50V 56P	
		COILS	
L901	VLQ0464K150	CHIP 15	
L902	VLQ0780K470	CHIP 47	
L903	VLQ0780K100	CHIP 10	
BOOM .	W1600	PIN HEADERS	
8901	VJS2961C006	BOARD TO BOARD 6P	
FRANCE		FPC CONNECTOR	
FP901	VJS4013D026	FPC CONNECTOR 26P	
FP902	VJS4013D020	FPC CONNECTOR 20P	
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Ref. No.	Part No.	Part Name	Remarks
		ELECTRONIC VIEWENCE	
		BACKLIGHT C.B.A.	
		BACKEIGHT C.B.A.	
		TRANSISTORS	
Q951	2SK1299STL	F.E.T.	
		CAPACITORS	
C952	VCUSQAJ106KB	C CHIP 6.3V 10	
		COILS	
L951	SLF6028T101M	CHOKE +-20% 100	
		PIN HEADERS	
B951	VJP3126D006	BOARD TO BOARD 6P	
		TRANSFORMER	
T951	ETJØ9K45AM	ANGI ORIILER	Δ
		I AMED	
PL951	VLLW0017	LAMP	
. 2552			
		000.00	
		CCD C.B.A.	
		INTEGRATED CIRCUITS	
IC601	MN37290FT	IC, CCD	E.S.D.
		TRANSISTORS	
Q601	2SC3931	CHIP	
		RESISTORS	
R417	ERDS2TJ105	1M	
R601	ERJ3GEYJ332V	MGF CHIP 1/16W 3.3K	
R602	ERJ8GEYJ470V	MGF CHIP 1/8W 47	
R661	ERJ3GEYØRØØV	MGF CHIP 1/16W 0	•
		CAPACITORS	
C601 C603	ECST1EY105 ECUV1C104ZFV	TANTALUM CHIP 25V 1 C CHIP +80%-20% 16V 0.1	
C664	ECUV1C104ZFV	C CHIP +80%-20% 16V 0.1	
		MICOELLANEOUG	
		MISCELLANEOUS	
E33	VMDW0465	CCD SURFACE PLATE, ZN	
		LIQUID CRYSTAL DISPLAY	
	· · · · · · · · · · · · · · · · · · ·	C.B.A.	
		INTEGRATED CIRCUITS	
IC8001	AN2537FHQ	IC, LINEAR RGB SIGNAL PROCESS	
IC8001 IC8002	AN2537FHQ XCG365C503MR		·
IC8002 IC8003	XC6365C503MR TA75S558F85L	IC, LINEAR RGB SIGNAL PROCESS LCD PANEL INDICATOR IC, LINEAR SWITCHING CONTROL IC, LINEAR OP AMP	
IC8002	XC6365C503MR	IC, LINEAR RGB SIGNAL PROCESS LCD PANEL INDICATOR IC, LINEAR SWITCHING CONTROL	
IC8002 IC8003	XC6365C503MR TA75S558F85L	IC, LINEAR RGB SIGNAL PROCESS LCD PANEL INDICATOR IC, LINEAR SWITCHING CONTROL IC, LINEAR OP AMP	
IC8002 IC8003	XC6365C503MR TA75S558F85L	IC, LINEAR RGB SIGNAL PROCESS LCD PANEL INDICATOR IC, LINEAR SWITCHING CONTROL IC, LINEAR OP AMP	
IC8002 IC8003	XC6365C503MR TA75S558F85L	IC, LINEAR RGB SIGNAL PROCESS LCD PANEL INDICATOR IC, LINEAR SWITCHING CONTROL IC, LINEAR OP AMP IC, LINEAR OP AMP	
IC8002 IC8003 IC8004	XC6365C503MR TA75S558F85L TA75S558F85L XP4314 DTC124EU	IC, LINEAR RGB SIGNAL PROCESS LCD PANEL INDICATOR IC, LINEAR SWITCHING CONTROL IC, LINEAR OP AMP IC, LINEAR OP AMP TRANSISTORS COMPLX CMP SI NPN/PNP CHIP CHIP	
IC8002 IC8003 IC8004	XC6365C503MR TA75S558F85L TA75S558F85L XP4314 DTC124EU OR MUN5212T1	IC, LINEAR RGB SIGNAL PROCESS LCD PANEL INDICATOR IC, LINEAR SWITCHING CONTROL IC, LINEAR OP AMP IC, LINEAR OP AMP TRANSISTORS COMPLX CMP SI NPN/PNP CHIP CHIP	
IC8002 IC8003 IC8004	XC6365C503MR TA75S558F85L TA75S558F85L XP4314 DTC124EU	IC, LINEAR RGB SIGNAL PROCESS LCD PANEL INDICATOR IC, LINEAR SWITCHING CONTROL IC, LINEAR OP AMP IC, LINEAR OP AMP TRANSISTORS COMPLX CMP SI NPN/PNP CHIP CHIP	
IC8902 IC8903 IC8904 Q8003 Q8004	XCG365C503MR TA75S558F85L TA75S558F85L XP4314 DTC124EU OR MUN5212T1 OR UN5212 DTC124EU OR MUN5212T1	IC, LINEAR RGB SIGNAL PROCESS LCD PANEL INDICATOR IC, LINEAR SWITCHING CONTROL IC, LINEAR OP AMP IC, LINEAR OP AMP TRANSISTORS COMPLX CMP SI NPN/PNP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
IC8002 IC8003 IC8004 Q8003 Q8004	XCG365C503MR TA75S558F85L TA75S558F85L XP4314 DTC124EU OR MUN5212T1 OR UN5212 DTC124EU OR MUN5212T1 OR UN5212	IC, LINEAR RGB SIGNAL PROCESS LCD PANEL INDICATOR IC, LINEAR SWITCHING CONTROL IC, LINEAR OP AMP IC, LINEAR OP AMP THANSISTORS COMPLX CMP SI NPN/PNP CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
IC8902 IC8903 IC8904 Q8003 Q8004	XCG365C503MR TA75S558F85L TA75S558F85L XP4314 DTC124EU OR MUN5212T1 OR UN5212 DTC124EU OR MUN5212T1	IC, LINEAR RGB SIGNAL PROCESS LCD PANEL INDICATOR IC, LINEAR SWITCHING CONTROL IC, LINEAR OP AMP IC, LINEAR OP AMP TRANSISTORS COMPLX CMP SI NPN/PNP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	

Q8007 Q8008 Q8009	- ` -	CHIP	
	OR 2SD1819A OR 2SD1819AI		
	OR 2SD1819AI	CHIP	
		CHIP	
		CHIP CHIP	
Q8009	OR 258970	CHIP	
	MSB1218A(R)	CHIP	***************************************
	OR 2SA1576T106R	CHIP	
	OR 2SB1218A	CHIP	
	OR 2SB1218AI	CHIP	
Q8011	MSB1218A(R)	CHIP	
	OR 2SA1576T106R OR 2SB1218A	CHIP	
	OR 2581218AI	CHIP	
Q8012	XP1501	CHIP	
Q8013	MSB1218A(R)	CHIP	
	OR 2SA1576T106R	CHIP	
		CHIP	
	OR 2581218AI	CHIP	-
Q8014	DTC144EU OR MUN5213	CHIP	
	OR UN5213	CHIP CHIP	
Q8Ø15	MSD1819A(R)	CHIP	
	OR 25C4081T106R	CHIP	
	OR 2SD1819A	CHIP	
	OR 2SD1819AI	CHIP .	
Q8016	DTC144EU	CHIP	
	OR MUN5213 OR UN5213	CHIP	
Q8017	MSB1218A(R)	CHIP	
VB017		CHIP	
	OR 2SB1218A	CHIP	
	OR 2SB1218AI	CHIP	
Q8018	MSB1218A(R)	CHIP	
		CHIP	
	OR 2581218A	CHIP	
Q8020	OR 2SB1218AI MSB1218A(R)	CHIP	
QUELE		CHIP	
• • • •	OR 2SB1218A	CHIP	
	OR 2SB1218AI	CHIP	
Q8022	MSD1819A(R)	CHIP	
	DR 25C4081T106R	CHIP	
	OR 25D1819A	CHIP	
Q8023	OR ZSD1819AI MSD1819A(R)	CHIP	
Quezo		CHIP	
	OR 2SD1819A	CHIP	
	OR 2SD1819AI	CHIP	
Q8024	DTC124EU	CHIP	
•	OR MUN5212T1	CHIP	
00025	OR UN5212	CHIP C T CUTP	
Q8025 Q8028	2SK1580 UMD12N	F.E.T. CHIP COMPLX CMP SI NPN/PNP CHIP	
Q8030	DTA114YU	CHIP	
	OR UN5114	CHIP	
Q8031	2SD1119	CHIP	Δ
	OR 2SD2150T100R	CHIP	Δ
Q8Ø32	2SD1119	CHIP .	À
			Δ
Q8038	XP162AØ1B5PR	F.E.T. CHIP	
		DIODES	
	MA8068-L	ZENER CHIP 6.8V	
D8003	MA720	CHIP	
D8003 D8006	OR SSB14-LT	CHIP	
			I
D8006		RESISTORS	
D8006 R8001	ERJ3GEYØRØØV	MGF CHIP 1/16W 0	
D8006 R8001 R8005	ERJ3GEYJ102V	MGF CHIP 1/16W 0 MGF CHIP 1/16W 1K	
D8006 R8001 R8005 R8009	ERJ3GEYJ102V ERJ3GEY0R00V	MGF CHIP 1/16W 0 MGF CHIP 1/16W 1K MGF CHIP 1/16W 0	•
D8006 R8001 R8005	ERJ3GEYJ102V	MGF CHIP 1/16W 0 MGF CHIP 1/16W 1K	
R8001 R8005 R8009 R8011	ERJ3GEYJ102V ERJ3GEY0R00V ERJ3GEYJ223V	MGF CHIP 1/16W 0 MGF CHIP 1/16W 1K MGF CHIP 1/16W 0 MGF CHIP 1/16W 22K	
R8001 R8005 R8009 R8011 R8012 R8013 R8014	ERJ3GEYJ102V ERJ3GEY0R00V ERJ3GEYJ223V ERJ3GEYJ222V ERJ3GEYJ473V ERJ3GEYJ223V	MGF CHIP 1/16W 0 MGF CHIP 1/16W 1K MGF CHIP 1/16W 0 MGF CHIP 1/16W 22K MGF CHIP 1/16W 22K MGF CHIP 1/16W 47K MGF CHIP 1/16W 47K MGF CHIP 1/16W 22K	
R8001 R8005 R8009 R8011 R8012 R8013	ERJ3GEYJ102V ERJ3GEY0R00V ERJ3GEYJ223V ERJ3GEYJ222V ERJ3GEYJ473V	MGF CHIP 1/16W 0 MGF CHIP 1/16W 1K MGF CHIP 1/16W 0 MGF CHIP 1/16W 22K MGF CHIP 1/16W 2.2K MGF CHIP 1/16W 47K	

(E36, E37)

					(E36, E37)		
Ref. No.	Part No.	Part Nar	ne	Remarks	Ref. No.	Part No.	
R8016	ERJ3GEYJ222V	MGF CHIP	1/16W 2.2K		C8Ø12	ECSTØJY475	T
R8018	ERJ3GEYØRØØV	MGF CHIP	1/16W 0	•	C8013	ECUVØJ105KBV	C
R8020	ERJ3GEYJ222V	MGF CHIP	1/16W 2.2K		C8014	ECUV1C104KBV	c
R8022	ERJ3GEYJ102V	MGF CHIP	1/16W 1K		C8015	ECUV1H681KBV	-1
R8023	ERJ3GEYJ103V	MGF CHIP	1/16W 10K		C8016	ECUV1C104KBV	Č
R8025	ERJ3GEYØRØØV	MGF CHIP		•	C8017	ECUV1C104KBV	- 0
R8027	ERJ3GEYJ222V	MGF CHIP	1/16W 2.2K		C8018	ECUV1H1Ø3KBV	c
R8029	ERJ3GEYJ392V	MGF CHIP	1/16W 3.9K		C8019	ECUV1C104KBV	c
R8030	ERJ3GEYJ471V	MGF CHIP	1/16W 470		C8020		1
R8032	VRJSD3D2702	MGF CHIP +-0.5%	1/16W 27K		C8021	MCUV1E104KBN	E
R8033	VRJSD3D1002	MGF CHIP +-0.5%	1/16W 10K		-	NMA0J226MTR	-
R8034	ERJ3GEYJ103V	MGF CHIP	1/16W 10K		C8022	ECUV1C1Ø4KBV	C
R8035	ERJ3GEYJ471V	MGF CHIP	1/16W 470		C8023	ECUVIA105KBN	C
R8Ø37					C8024	VCUSQBA225KB	C
	ERJ3GEYØRØØV	_	1/16W Ø	•	C8025	ECST1CY475	7
R8038 R8039	ERJ3GEYØRØØV	MGF CHIP	1/16W 0	•	C8026	VCUSQAC225KB	· C
	ERJ3GEYJ103V	MGF CHIP	1/16W 10K		C8027	VCUSQBA225KB	C
R8041	ERJ3GEYJ103V	MGF CHIP	1/16W 10K		C8028	ECUE1H103KBV	C
R8043	ERJ3GEYJ222V	MGF CHIP	1/16W 2.2K		C8029	VCUSQBA225KB	c
R8045	ERJ3GEY0R00V	MGF CHIP	1/16W 0	•	C8030	ECUV1H152KBV	C
R8046	ERJ3GEYJ222V	MGF CHIP	1/16W 2.2K		C8032	ECST1AY225	T.
R8048	ERJ3GEYJ222V	MGF CHIP	1/16W 2.2K		C8033	VCUSQBA225KB	c
R8050	ERJ3GEYJ102V	MGF CHIP	1/16W 1K		C8034	ECST1AX106	T
R8051	ERJ3GEYJ102V	MGF CHIP	1/16W 1K		C8036	VCUSQAC225KB	C
R8052	ERJ3GEYJ102V	MGF CHIP	1/16W 1K		C8037	VCUSQBA225KB	c
R8055	ERJ3GEYJ561V	MGF CHIP	1/16W 560		C8Ø39	ECUV1H151JCV	c
R8056	ERJ3GEYJ473V	MGF CHIP	1/16W 47K		C8040	VCUSQBC105K8	c
R8057	ERJ3GEYJ102V	MGF CHIP	1/16W 1K		C8041	EEFCDØJ22ØR	Ť,
R8058	ERJ3GEYJ562V	MGF CHIP	1/16W 5.6K		C8042	VCUSQBA225KB	c
R8059	ERJ3GEYJ104V	MGF CHIP	1/16W 100K		C8045	ECWU1H2Z3J85	P
R8061	ERJ3GEYØRØØV	MGF CHIP	1/16W 0	•	C8047	VCUSQAC105KB	
R8062	ERJ3GEYØRØØV	MGF CHIP	1/16W 0	•	C8048	VCCW0008	c
R8063	ERJ3GEYØRØØV	MGF CHIP	1/16W 0	•	C8049		c
R8064	ERJ3GEYØRØØV	MGF CHIP	1/16W 0	•		ECUE1H103KBV	_
R8065	ERJ3GEYØRØØV	MGF CHIP	1/16W 0		C8050	ECUV1C104KBV	C
R8066				•	C8051	ECSTØJY106	T
R8067	ERJ3GEYJ153V	MGF CHIP	1/16W 15K		C8052	ECSTØJY106	T/
R8068	ERJ3GEYØRØØV	MGF CHIP	1/16W 0	•	C8053	VCUSQBC105KB	c
	ERJ3GEYØRØØV	MGF CHIP	1/16W 0	•	C8054	ECUV1C104KBV	c
R8069	ERJ3GEYØRØØV	MGF CHIP	1/16W 0	•			\bot
R8070	ERJ3GEYØRØØV	MGF CHIP	1/16W 0	•			4
R8071	ERJ3GEY0R00V	MGF CHIP	1/16W 0	•	 		C
R8072	ERJ3GEYØRØØV	MGF CHIP	1/16W 0	•	L8002	VLQ0464K220	a
R8073	ERJ6GEYØRØØV	MGF CHIP	1/10W 0	•	L8003	SLF6028T100M	CI
R8074	ERJ3GEYJ682V	MGF CHIP	1/16W 6.8K		L8004	VLQ0426J150	CF
R8075	ERJ3GEYJ473V	MGF CHIP	1/16W 47K		L8005	VLQ0426J150	CH
R8078	ERJ3GEYJ473V	MGF CHIP	1/16W 47K		L8006	SLF6028T330M	CH
R8079	ERJ3GEYJ473V	MGF CHIP	1/16W 47K		L8007	VLQ0426J150	CH
R8080	ERJ3GEYJ101V	MGF CHIP	1/16W 100		L8008	SLF6028T680M	CH
R8081	ERJ3GEYJ101V	MGF CHIP	1/16W 100		L8009	VLQ0426J150	CH
R8082	ERJ3GEYJ223V	MGF CHIP	1/16W 22K		L8010	VLQ0426J150	CH
R8083	ERJ3GEYJ101V	MGF CHIP	1/16W 100		L8011	VLQ0426J150	CH
R8084	ERJ3GEY0R00V	MGF CHIP		•	 		\perp
R8Ø87	ERJ3GEYJ104V	MGF CHIP	1/16W 100K				\perp
R8088	ERJ3GEYJ473V	MGF CHIP	1/16W 47K				F
R8089	ERJ3GEYJ103V	MGF CHIP	1/16W 10K		FP8001	VJS4012D005	FF
R8090	ERJ3GEYJ184V	MGF CHIP	1/16W 180K		FP8002	VJS39710021	FP
R8091	ERJ3GEYJ473V	MGF CHIP	1/16W 47K		FP8003	VJS3971D021	FF
R8094	ERJ3GEYJ104V	MGF CHIP	1/16W 100K		FP8004	VJS4012D024	FF
R8095	ERJ3GEYJ103V	MGF CHIP	1/16W 10K				T
R8097	ERJ3GEYJ102V	MGF CHIP	1/16W 1K				\top
R8098	ERJ3GEYJ103V	MGF CHIP	1/16W 10K] [TI
R8100	ERJ3GEYØRØØV	MGF CHIP	1/16W Ø	•	T8001	VLTW0054	1
R8101	ERJ3GEYJ102V	MGF CHIP	1/16W 1K		1		\top
R8102 ·	ERJ3GEYJ333V	MGF CHIP	1/16W 33K				+
R8105	ERJ3GEYJ103V	MGF CHIP	1/16W 10K			1	М
R8106	ERJ3GEYJ103V	MGF CHIP	1/16W 10K				1"
R8110	ERJ3GEYJ113V	MGF CHIP	1/16W 11K		E36	VMZW0660	IN
			37 2017 AAR		E37	VMZW0650	IN
					1.51	***Z110030	+
		CAPACITORS			ł		+
20002	VCHCOAC 47EVP	CAPACITORS	16)/ 4 3		l		+
C8003	VCUSQAC475KB	C CHIP	16V 4.7		l		+
C8004	ECUV1C104KBV	C CHIP	16V 0.1		l ——		1
C8005	ECUE1H103KBV	C CHIP	50V 0.01				\perp
8006	ECUV1C104KBN	C CHIP	16V 0.1				
C8007	NMAØJ226MTR	ELECTROLYTIC CHIP	6.3V 22				\perp
C8008	ECUV1C104KBV	C CHIP	16V 0.1		l L		Γ
C8009	ECUVØJ105KBV	C CHIP	6.3V 1				T
	ECUVØJ105KBV	C CHIP	6.3V 1]		T
.8010					1		_
	ECST0JY475	TANTALUM CHIP	6.3V 4.7		1 1	ı	ı,
C8010 C8011	ECST0JY475	TANTALUM CHIP	6.3V 4.7		l	ļ	-

(E36, E37)				
Ref. No.	Part No.	Part Nam	ie	Remarks
C8012	ECSTØJY475	TANTALUM CHIP	6.3V 4.7	
C8013	ECUVØJ105KBV	C CHIP	6.3V 1	
C8014	ECUV1C104KBV	C CHIP	16V 0.1	
C8015	ECUV1H681KBV	C CHIP	50V 680P	
C8016	ECUV1C104KBV	C CHIP	16V 0.1	
C8017	ECUV1C104KBV	C CHIP	16V 0.1	
C8018	ECUV1H103KBV	C CHIP	50V 0.01	
C8019	ECUV1C104KBV	C CHIP	16V 0.1	
C8020	MCUV1E104KBN	C CHIP	25V . Ø.1	
C8021	NMA0J226MTR	ELECTROLYTIC CHIP	6.3V 22	
C8022	ECUV1C104KBV	C CHIP	16V 0.1	
C8023	ECUV1A105KBN	C CHIP	10V 1	
C8024	VCUSQBA225KB	C CHIP	10V 2.2	
C8025	ECST1CY475	TANTALUM CHIP	16V 4.7	
C8026	VCUSQAC225KB	C CHIP	16V 2.2	
C8027	VCUSQBA225KB	C CHIP	10V 2.2	
C8028	ECUE1H103KBV	C CHIP	50V 0.01	
C8029	VCUSQBA225KB	C CHIP	10V 2.2	
C8030	ECUV1H152KBV	C CHIP	50V 1500P	
C8032	ECST1AY225	TANTALUM CHIP	10V 2.2	
C8033	VCUSQBA225KB	C CHIP TANTALUM CHIP	10V 2.2	
C8034	VCUSQAC225KB	C CHIP	16V 10	
C8037	VCUSQBA225KB	C CHIP	16V 2.2	
C8039	ECUV1H1513CV	C CHIP +-5%	50V 150P	
C8040	VCUSQBC105K8	C CHIP +-5%	16V 1	
C8041	EEFCDØJ22ØR	TANTALUM CHIP	6.3V 22	
C8042	VCUSQBA225KB	C CHIP	10V 2.2	
C8045	ECWU1H2Z3J85	POLYESTER +-5%	50V 0.022	
C8047	VCUSQAC105KB	C CHIP	16V 1	
C8048	VCCW0008	C CHIP	30. 1	
C8049	ECUE1H103KBV	C CHIP	50V 0.01	
C8050	ECUV1C104KBV	C CHIP	16V Ø.1	
C8051	ECSTØJY106	TANTALUM CHIP	6.3V 10	
C8052	ECSTØJY106	TANTALUM CHIP	6.3V 10	
C8053	VCUSQBC105KB	C CHIP	16V 1	
C8054	ECUV1C104KBV	C CHIP	16V 0.1	
		COILS		
L8002	VLQ0464K220	CHIP	22	
L8003	SLF6028T100M	CHOKE +-20%	10	
L8004	VLQ0426J150	CHIP +-5%	15	
L8005	VLQ0426J150	CHIP +-5%	15	
L8006	SLF6028T330M	CHOKE +-20%	33	
L8007	VLQ0426J150	CHIP +-5%	15	
L8008	SLF6028T680M	CHOKE +-20%	68	Δ
L8009	VLQ0426J150	CHIP +-5%	15	
L8010	VLQ0426J150	CHIP +-5%	15	
L8011	VLQ0426J150	CHIP +-5%	15	

		FPC CONNECTOR		
ED2001	VJS4012D005		11111	
FP8001 FP8002	VJS40120005 VJS39710021	FPC CONNECTOR 5P FPC CONNECTOR 21P		
FP8003	VJS39710021 VJS39710021	FPC CONNECTOR 21P		
	VJS4012D024	FPC CONNECTOR 24P		
		COMPLETOR CAP		
		TRANSFORMER		
T8001	VLTW0054			Δ
		MISCELLANEOUS		
E36	VMZW0660	INSULATION SHEET,PL	ASTIC	
E37	VMZW0650	INSULATION SHEET, PL	ASTIC	

(E11, E41, E42)

Q5002 25 Q5003 25 Q5005 25 Q5006 25 R5002 EF R5003 EF R5004 EF R5012 EF R5012 EF R5013 EF R5015 EF R5016 EF R5016 EF R5017 EF R5016 EF R5017 EF R5018 EF R5019 EF R5019 EF	Part No. M3731FHQ SC3937 SC3937 SD1938F SD1938F SD1938F R12GE103X R12GE103X R12GE102X	MGF CHIP 1/16W 1K MGF CHIP 1/16W 1.5K MGF CHIP 1/16W 1.5K MGF CHIP 1/16W 12K MGF CHIP 1/16W 270 MGF CHIP 1/16W 270	Remarks	E41 E42 E11 E11 E1 E3	Part No. VMPS631 XQN16+83 VJBW1657F	PART NAME MISCELLANEOUS FIXING FRAME SCREW, STEEL ELECTRICAL PARTS LOCATED ON CHASSIS LIGHT FLEXIBLE PRINTED CIRCUIT SUMMARY OF "E" ITEM NU REFER TO ELECTRICAL PA FOR MODEL INFORMATION	ARTS LIST
Q\$002 25 Q\$005 25 Q\$006 25 Q\$006 25 R\$002 EF R\$003 EF R\$004 EF R\$010 EF R\$012 EF R\$013 EF R\$014 EF R\$015 EF R\$016 EF R\$017 EF R\$017 EF R\$018 EF R\$019 EF	SC3937 SC3937 SSC3937 SSD1938F SSD1938F SSD1938F SRJ2GEJ103X RJ2GEJ103X RJ2GEJ103X RJ2GEJ102X RJ3GEYJ123V RJ3GEYJ123V RJ2GEJ271X RJ2GEJ271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X	INTEGRATED CIRCUITS IC, LINEAR HEAD/REC AMP		E11	XQN16+B3	FIXING FRAME SCREW, STEEL ELECTRICAL PARTS LOCATED ON CHASSIS LIGHT FLEXIBLE PRINTED CIRCUIT SUMMARY OF "E" ITEM NU REFER TO ELECTRICAL PA	ARTS LIST
25902 25 25903 25 25906 25 25906 25 25906 25 259006 25 259003 EF 25903 EF 25903 EF 25903 EF 25903 EF 25904 EF 25903 EF 25904 EF 25903 EF 2590	SC3937 SC3937 SSC3937 SSD1938F SSD1938F SSD1938F SRJ2GEJ103X RJ2GEJ103X RJ2GEJ103X RJ2GEJ102X RJ3GEYJ123V RJ3GEYJ123V RJ2GEJ271X RJ2GEJ271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X	IC, LINEAR HEAD/REC AMP TRANSISTORS CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP RESISTORS MGF CHIP 1/16W 470 MGF CHIP 1/16W 10K MGF CHIP 1/16W 11K MGF CHIP 1/16W 11K MGF CHIP 1/16W 11K MGF CHIP 1/16W 12K MGF CHIP 1/16W 1		E11	XQN16+B3	ELECTRICAL PARTS LOCATED ON CHASSIS LIGHT FLEXIBLE PRINTED CIRCUIT SUMMARY OF "E" ITEM NU REFER TO ELECTRICAL PA	ARTS LIST
25902 25 25903 25 25906 25 25906 25 25906 25 259006 25 259003 EF 25903 EF 25903 EF 25903 EF 25903 EF 25904 EF 25903 EF 25904 EF 25903 EF 2590	SC3937 SC3937 SSC3937 SSD1938F SSD1938F SSD1938F SRJ2GEJ103X RJ2GEJ103X RJ2GEJ103X RJ2GEJ102X RJ3GEYJ123V RJ3GEYJ123V RJ2GEJ271X RJ2GEJ271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X	IC, LINEAR HEAD/REC AMP TRANSISTORS CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP RESISTORS MGF CHIP 1/16W 470 MGF CHIP 1/16W 10K MGF CHIP 1/16W 11K MGF CHIP 1/16W 11K MGF CHIP 1/16W 11K MGF CHIP 1/16W 12K MGF CHIP 1/16W 1		E11	XQN16+B3	ELECTRICAL PARTS LOCATED ON CHASSIS LIGHT FLEXIBLE PRINTED CIRCUIT SUMMARY OF "E" ITEM NU REFER TO ELECTRICAL PA	ARTS LIST
Q\$002 25 Q\$005 25 Q\$006 25 Q\$006 25 R\$002 EF R\$003 EF R\$004 EF R\$010 EF R\$012 EF R\$013 EF R\$014 EF R\$015 EF R\$016 EF R\$017 EF R\$017 EF R\$018 EF R\$019 EF	SC3937 SC3937 SSC3937 SSD1938F SSD1938F SSD1938F SRJ2GEJ103X RJ2GEJ103X RJ2GEJ103X RJ2GEJ102X RJ3GEYJ123V RJ3GEYJ123V RJ2GEJ271X RJ2GEJ271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X	IC, LINEAR HEAD/REC AMP TRANSISTORS CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP RESISTORS MGF CHIP 1/16W 470 MGF CHIP 1/16W 10K MGF CHIP 1/16W 11K MGF CHIP 1/16W 11K MGF CHIP 1/16W 11K MGF CHIP 1/16W 12K MGF CHIP 1/16W 1		E11		ELECTRICAL PARTS LOCATED ON CHASSIS LIGHT FLEXIBLE PRINTED CIRCUIT SUMMARY OF "E" ITEM NU REFER TO ELECTRICAL PA	ARTS LIST
Q\$002 25 Q\$000 25 Q\$000 52 Q\$000 625 Q\$000 625 R\$002 EF R\$003 EF R\$004 EF R\$004 EF R\$012 EF R\$012 EF R\$013 EF R\$014 EF R\$015 EF R\$016 EF R\$017 EF R\$016 EF R\$017 EF R\$017 EF R\$018 EF R\$019 EF	SC3937 SC3937 SSC3937 SSD1938F SSD1938F SSD1938F SRJ2GEJ103X RJ2GEJ103X RJ2GEJ103X RJ2GEJ102X RJ3GEYJ123V RJ3GEYJ123V RJ2GEJ271X RJ2GEJ271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X	TRANSISTORS CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP		E1	VJB#1657F	LIGHT FLEXIBLE PRINTED CIRCUIT SUMMARY OF "E" ITEM NU REFER TO ELECTRICAL PA	ARTS LIST
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25005 25 Q5006 25 Q5006 25 R5002 EF R5003 EF R5004 EF R50010 EF R5012 EF R5013 EF R5011 EF R5012 EF R5011 EF R5	SD1938F SD1938F RJ2GEJ471X RJ2GEJ103X RJ2GEJ103X RJ2GEJ103X RJ2GEJ102X RJ3GEYJ123V RJ3GEYJ123V RJ3GEYJ123V RJ2GEJ271X RJ2GEJ271X RJ2GEJ271X RJ2GEJ271X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X	CHIP CHIP CHIP CHIP RESISTORS MGF CHIP 1/16W 470 MGF CHIP 1/16W 10K MGF CHIP 1/16W 1 1K MGF CHIP 1/16W 68 MGF CHIP 1/16W 1.5K MGF CHIP 1/16W 1.5K MGF CHIP 1/16W 1.76W MGF CHIP 1/16W 270 MGF CHIP 1/16W 270 MGF CHIP 1/16W 270	•	E1	VJBW1657F	SUMMARY OF "E" ITEM NU REFER TO ELECTRICAL PA	ARTS LIST
CS0006 C	RJ2GEJ471X RJ2GEJ103X RJ2GED103X RJ2GED102X RJ2GEJ680X RJ3GEYJ152V RJ3GEYJ152V RJ3GEYJ152V RJ2GEJ271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ102X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X RJ2GEJ02X	CHIP RESISTORS MGF CHIP 1/16W 470 MGF CHIP 1/16W 10K MGF CHIP 1/16W 0 MGF CHIP 1/16W 1K MGF CHIP 1/16W 15 MGF CHIP 1/16W 1.5K MGF CHIP 1/16W 1.5K MGF CHIP 1/16W 1.7W MGF CHIP 1/16W 1.7W MGF CHIP 1/16W 270 MGF CHIP 1/16W 270	•	E1		SUMMARY OF "E" ITEM NU REFER TO ELECTRICAL PA	ARTS LIST
R5003 EFR R5004 EFR R5005 EFR R5010 EFR R5012 EFR R5013 EFR R5013 EFR R5014 EFR R5015 EFR R5016 EFR R5017 EFR R5018 EFR R5018 EFR R5019 EFR R5019 EFR R5019 EFR R5019 EFR R5019 EFR R5019 EFR R5020 EFR R5020 EFR	RJ2GEJ103X RJ2GEJ00X RJ2GEJ680X RJ3GEJ152V RJ3GEJ152V RJ3GEJ1271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X	MGF CHIP 1/16W 470 MGF CHIP 1/16W 10K MGF CHIP 1/16W 0 MGF CHIP 1/16W 1K MGF CHIP 1/16W 16K MGF CHIP 1/16W 15K MGF CHIP 1/16W 12K MGF CHIP 1/16W 12K MGF CHIP 1/16W 270 MGF CHIP 1/16W 270	•			REFER TO ELECTRICAL PA	ARTS LIST
R5003 EFR R5004 EFR R5005 EFR R5010 EFR R5012 EFR R5013 EFR R5013 EFR R5014 EFR R5015 EFR R5016 EFR R5017 EFR R5018 EFR R5018 EFR R5019 EFFR R5019 EFR R5019 EFR R5019 EFR R5019 EFR R5019 EFR R5019 EFR R5020 EFR R5020 EFR	RJ2GEJ103X RJ2GEJ00X RJ2GEJ680X RJ3GEJ152V RJ3GEJ152V RJ3GEJ1271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X	MGF CHIP 1/16W 470 MGF CHIP 1/16W 10K MGF CHIP 1/16W 0 MGF CHIP 1/16W 1K MGF CHIP 1/16W 16K MGF CHIP 1/16W 15K MGF CHIP 1/16W 12K MGF CHIP 1/16W 12K MGF CHIP 1/16W 270 MGF CHIP 1/16W 270	•			REFER TO ELECTRICAL PA	ARTS LIST
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R5003 EFR R5004 EFR R5005 EFR R5010 EFR R5011 EFR R5012 EFR R5015 EFR R5015 EFR R5016 EFR R5017 EFR R5018 EFR R5018 EFR R5019 EFR R5019 EFR R5019 EFR	RJ2GEJ103X RJ2GEJ00X RJ2GEJ680X RJ3GEJ152V RJ3GEJ152V RJ3GEJ1271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X	MGF CHIP 1/16W 10K MGF CHIP 1/16W 0 MGF CHIP 1/16W 1K MGF CHIP 1/16W 63 MGF CHIP 1/16W 1.5K MGF CHIP 1/16W 1.5K MGF CHIP 1/16W 270 MGF CHIP 1/16W 270 MGF CHIP 1/16W 270	•			TOTAL MODEL IN COMPANIE	
R5004 ER R5005 ER R5010 ER R5012 EF R5013 EF R5014 ER R5015 EF R5016 EF R5017 ER R5018 EF R5019 EF R5019 EF R5019 EF R5020 ER	RJ2GEØRØØX RJ2GEJ102X RJ2GEJ680X RJ3GEYJ152V RJ3GEYJ153V RJ2GEJ271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X RJ2GEJ680X RJ3GEYJ123V	MGF CHIP 1/16N 0 MGF CHIP 1/16N 1K MGF CHIP 1/16N 68 MGF CHIP 1/16N 1.5K MGF CHIP 1/16N 1.5K MGF CHIP 1/16N 270 MGF CHIP 1/16N 270	•				
RS010 ER RS012 ER RS013 ER RS014 ER RS015 ER RS016 ER RS017 ER RS018 ER RS019 ER RS020 ER	RJ2GEJ680X RJ3GEYJ152V RJ3GEYJ123V RJ2GEJ271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ102X RJ2GEJ102X RJ2GEJ680X RJ3GEYJ123V	MGF CHIP 1/16W 68 MGF CHIP 1/16W 1.5K MGF CHIP 1/16W 12K MGF CHIP 1/16W 270 MGF CHIP 1/16W 270			1		
RS012 ER RS013 ER RS014 EF RS015 EF RS016 EF RS016 EF RS017 EF RS018 EF RS019 EF RS020 EF RS021 EF	RJ3GEYJ152V RJ3GEYJ123V RJ2GEJ271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ102X RJ2GEJ680X RJ3GEYJ123V	MGF CHIP 1/16W 1.5K MGF CHIP 1/16W 12K MGF CHIP 1/16W 270 MGF CHIP 1/16W 270			VEQW0302	MAIN/CAMERA C.B.A. NR	
RS013 ER RS014 ER RS015 EF RS016 EF RS017 EF RS018 EF RS019 EF RS019 EF RS019 EF RS019 EF RS020 EF RS021 EF	RJ3GEYJ123V RJ2GEJ271X RJ2GEJ271X RJ2GEJ102X RJ2GEJ102X RJ2GEJ680X RJ3GEYJ123V	MGF CHIP 1/16W 12K MGF CHIP 1/16W 270 MGF CHIP 1/16W 270		E3 E4	VXMW0111 VEPW1653A1	FRONT C.B.A. REAR C.B.A.	RTL RTL
RS014 ER RS015 ER RS016 ER RS017 ER RS018 ER RS019 ER RS020 ER RS021 ER	RJ2GE J271X RJ2GE J271X RJ2GE J102X RJ2GE J102X RJ2GE J680X RJ3GE YJ123V	MGF CHIP 1/16W 270 MGF CHIP 1/16W 270		E5	VEPW1653A1 VEPW1654A1	ELECTRONIC VIEWFINDER DRIVE	RTL
RS015 EF RS016 EF RS017 EF RS018 EF RS019 EF RS020 EF RS021 EF RS025 EF	RJ2GEJ271X RJ2GEJ102X RJ2GEJ102X RJ2GEJ680X RJ3GEYJ123V	MGF CHIP 1/16W 270	**			C.B.A.	
R5017 EF R5018 EF R5019 EF R5020 EF R5021 EF R5025 EF	RJ2GEJ102X RJ2GEJ680X RJ3GEYJ123V			E6	VEPW1655A1	ELECTRONIC VIEWFINDER	RTL
R5018 EF R5019 EF R5020 EF R5021 EF R5025 EF	RJ2GEJ680X RJ3GEYJ123V	MGF CHIP 1/16W 1K				BACKLIGHT C.B.A.	
R5019 EF R5020 EF R5021 EF R5025 EF	RJ3GEYJ123V	MGF CHIP 1/16W 1K		E7	VEQW0284	CCD C.B.A.	RTL
R5020 EF R5021 EF R5025 EF		MGF CHIP 1/16W 68 MGF CHIP 1/16W 12K		E8 E9	VEPW1651A1 VEQW0289	LIQUID CRYSTAL DISPLAY C.B.A. HEAD AMP C.B.A.	RTL RTL
R5021 EF	RJ3GEYJ152V	MGF CHIP 1/16W 1.5K		E10	VEPW166SA1	SHORT JIG C.B.A. NR	
	RJ3GEYJ100V	MGF CHIP 1/16W 10		E11	VJBW1657F	LIGHT FLEXIBLE PRINTED CIRCUIT	
R5028 EF	RJ2GEJ271X	MGF CHIP 1/16W 270		E21	VEKW1778	ELECTRIC CONDENSER MICROPHONE	
	RJ2GEJ152X	MGF CHIP 1/16W 1.5K		622	144DWCC00	UNIT:	
				E23 E24	VMDW0500 VMTW0030	MICROPHONE PIECE B MICROPHONE CUSHION,	
		CAPACITORS		1	/111 110030	POLYURETHANE	
25001 EC	CUE1C103KBQ	C CHIP 16V 0.01		E25	VMGWØ222	MICROPHONE DAMPER	
C5002 EC	CUE1C103KBQ	C CHIP 16V 0.01		E26	VMDWØ499	MICROPHONE PIECE A	
	CUE1C103KBQ	C CHIP 16V 0.01		E28	XQN2+BJ4FXK	SCREW, STEEL	
	CUE1C103KBQ	C CHIP 16V 0.01		E31 E33	VL1220/1FC VMDW0465	BATTERY CCD SURFACE PLATE, ZN	
	CUE1C103KBQ CUE1E152KBQ	C CHIP 25V 1500P		E36	VMZW0660	INSULATION SHEET, PLASTIC	
	EJKØJS106R	TANTALUM CHIP 6.3V 10		E37	VMZW0650	INSULATION SHEET, PLASTIC	
	CUE1C103KBQ	C CHIP 16V 0.01		E41	VMP5631	FIXING FRAME	
	CUE1H330JCQ	C CHIP +-5% 50V 33P		E42	XQN16+B3	SCREW, STEEL	
	CUE1C103KBQ	C CHIP 16V 0.01					
	CUE1C103KBQ EJK0JS106R	C CHIP 16V 0.01 TANTALUM CHIP 6.3V 10		ł 	 	-	
	EJKØJS106R	TANTALUM CHIP 6.3V 10		l			
	CUE1H150JCQ	C CHIP +-5% 50V 15P					
	CUE1C103KBQ	C CHIP 16V 0.01					
	CUE1C103KBQ	C CHIP 16V 0.01		l	ļ	-	
	EJKØJS106R	TANTALUM CHIP 6.3V 10 C CHIP 25V 1500P		l	<u> </u>		
	CUE1E152KBQ CUE1H33ØJCQ	C CHIP +-5% 50V 33P			 		
	CUE1E122KBQ	C CHIP 25V 1200P		1			
	CUE1C103KBQ	C CHIP 16V 0.01					
	CUE1H470JCQ	C CHIP +-5% 50V 47P					
	CUE1E681KBQ	C CHIP 25V 680P		l			
	CUE1C103KBQ	C CHIP 16V 0.01 TANTALUM CHIP 6.3V 10			 		
	EJKØJS106R EJKØJS106R	TANTALUM CHIP 6.3V 10 TANTALUM CHIP 6.3V 10					
	EJKØJS1Ø6R	TANTALUM CHIP 6.3V 10					
	CUE1C103KBQ	C CHIP 16V 0.01					
C5039 EG	CUE1C103KBQ	C CHIP 16V 0.01				N 11-40 - 12-40 - 1	
C5040 E6	CUE1C103KBQ	C CHIP 16V 0.01			1		
				1	 		
		COILS		H	 		
.5002 VI	/LQ0808K220	CHIP . 22		1			
	/LQ0808K220	CHIP 22					
L5005 VI	/LQ0807M4R7	CHIP +-20% 4.7					
L5007 VI	/LQ0807M4R7	CHIP +-20% 4.7					
				l	 	 	
		FPC CONNECTOR		ł I	 		<u> </u>
FP5001 V.	/J54036D008	FPC CONNECTOR 8P		1	 		
croppd1 IV		3 33		1			
FP5001 V.					1		

AC ADAPTOR SECTION

DISASSEMBLY/ASSEMBLY PROCEDURES

DISASSEMBLY/ASSEMBLY PROCEDURES OF AC ADAPTOR

DISASSEMBLY FLOW CHART

This flow chart indicates the disassembly steps of the cabinet parts and the P.C.Boards in order to gain access to item (s) to be serviced. When reassembling, perform the step (s) in the reverse order. Bend, route and dress the wires as they were originally.

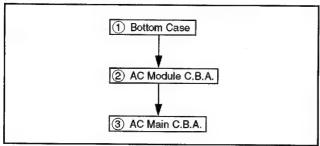


Fig. DA1

Note:

Disconnect the AC Plug before disassembling.

DISASSEMBLY METHOD

STEP /LOC. No.	PART	Fig. No.	REMOVE
1	Bottom Case	DA2	2(S-1), 4(L-1)
2	AC Module C.B.A.	DA2	4(S-2), Top Case Unit, Unsolder
3	AC Main C.B.A.	DA2	(S-3), AC Shield Case, Top Barrier, Bottom Barrier

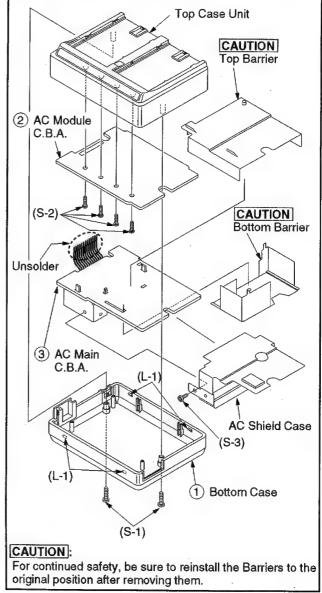


Fig. DA2

ELECTRICAL ADJUSTMENT

TEST EQUIPMENT

To do Reference voltage adjustments, the following equipments are required.

- DVM (Digital Volt Metet)
 Plastic Tip Driver or Non-metal Driver

Reference Voltage Adjustment

Purpose:

To set the proper reference voltage output.

Symptom of Msadjustment:

All circuits will not operate properly.

Check point:

Between Pin 4 and Pin 8 of P02 on AC Main

C.B.A.

Adjustment:

VR21

Specification:

+4.175VDC +/-0.01V

Mode:

Equipment:

DVM (Digital Voltage Meter)

Adjustment Procedure:

- 1. Remove the Bottom Case of the AC Adaptor (Refer to Disassembly/Assembly Procedures of AC Adaptor.) and
- place the unit as shown in Fig. A1.

 2. Connect the DVM (Digital Voltage Meter) as shown in Fig.
- 3. Apply AC120V to AC Input (AC Cord Plug).
 4. Adjust VR21 so that the voltage becomes +4.175 +/-0.01VDC.

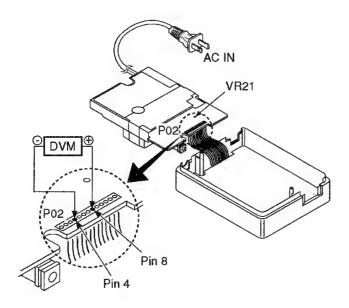


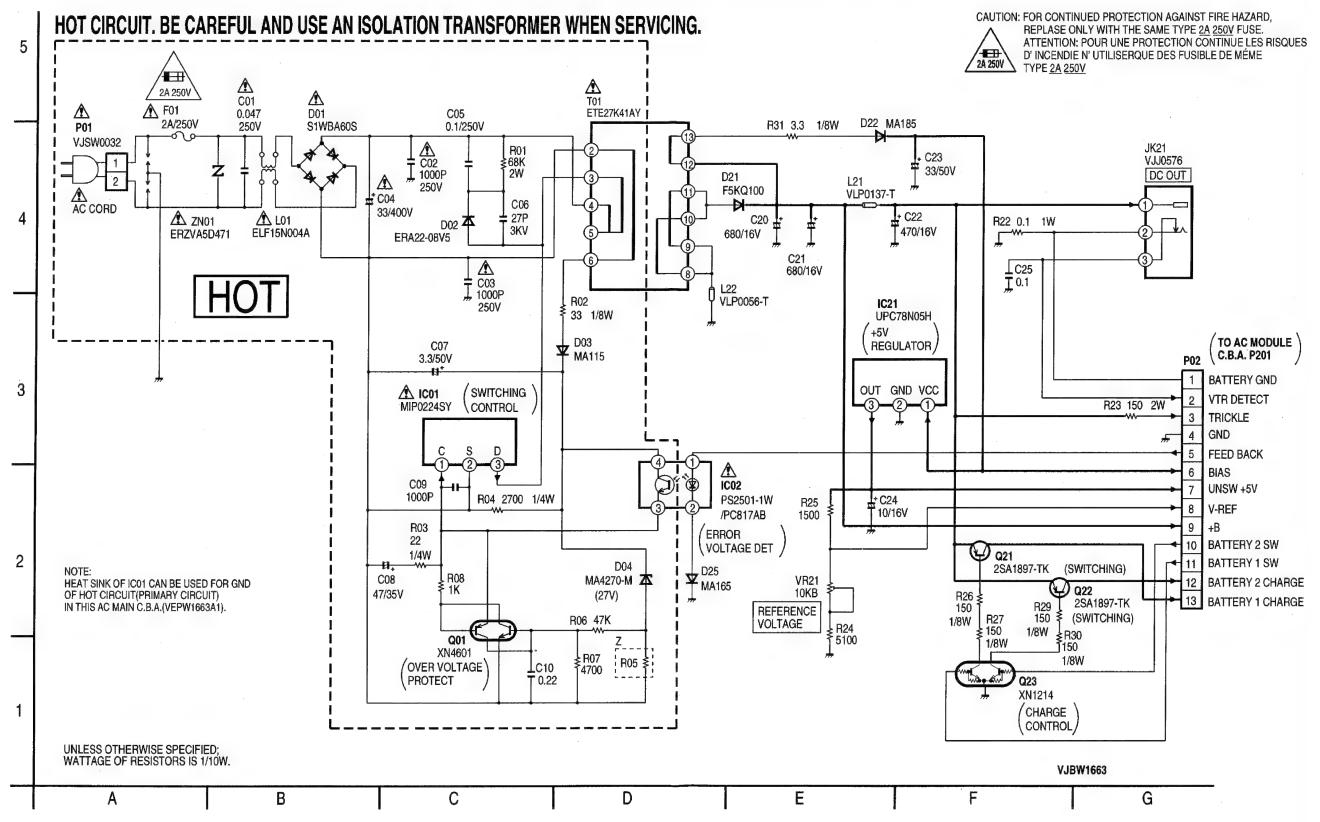
Fig. A1

SCHEMATIC DIAGRAMS AC MAIN SCHEMATIC DIAGRAM

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION, PAGE 4-1.

NOTE: PARTS ENCLOSED IN DASHED LINES MARKED "Z" ARE NOT USED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.



AC MODULE SCHEMATIC DIAGRAM

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, PARTS ENCLOSED IN DASHED LINES MARKED "Z" ARE NOT USED. REFER TO BEGINNING OF SCHEMATIC SECTION, PAGE 4-1. R224 47K 1/10W R229 47K 1/10W H228 4700 6 C226 0.1 P202 (TO BATTERY PACK) (TO AC MAIN C.B.A. P02 P201 BATTERY GND 1 1 BATTERY 1 CHARGE R250 ≸ ₹ R249 24K ₹ 160K NJU7034M-TE1 (OP.AMP) IC203 NJM2902M-TE1 (COMPARATOR) 3 BATTERY 1 D
4 BATTERY 9 D
5 BATTERY 2 CHARGE
6 BATTERY 2 T
7 BATTERY 2 D
8 BATTERY 9 MD VTR DETECT C222 FEED BACK R219 220 I C225 T C224 UNSW+5V V-REF C221 T 5 BATTERY 2 SW BATTERY 1 SW R207 12K C204 0.1 R215 1K ≠ R216 1K R221 1K 1/10W D211 D215 D212 D216 MA3068 MA3068 MA3068 (6.8V) (6.8V) (6.8V) (6.8V) BATTERY 2 CHARGE 12 -BATTERY 1 CHARGE 13 -R270 ≸ R214 3300 C207 I D201 LN276RPX2U POWER R213 3900 ₹ R201 330 77 1/10W (CHARGE LED) F1258 ≸10K D208 DAP202KT D203 80% DZ02 SO% LN376GPXV DZGE 80% LNG76GFXV DZGE 80% LNG76GFXV CDZDT 180% LNG76GFXV R223 4700 QR205 XN1211 (SWITCHING) R256 4700 1/10W QR201 UN2211 H240 10K 1/10W R241 10K 1/10W R242 220K C210 ____ 0.22 ____ R206 3900 1/10W IC205 LUSK6B84 (CHARGE CONTROL MICROCONTROLLER) R263 10K ₹ R261 4700 R244 10K 1/10W R260 4700 R246 10K 1/10W UNLESS OTHERWISE SPECIFIED; WATTAGE OF RESISTORS IS 1/16W. В Н

NOTE:

10-4

CIRCUIT BOARD LAYOUT AC MAIN C.B.A. VEPW1663A1

NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION, PAGE 4-1.

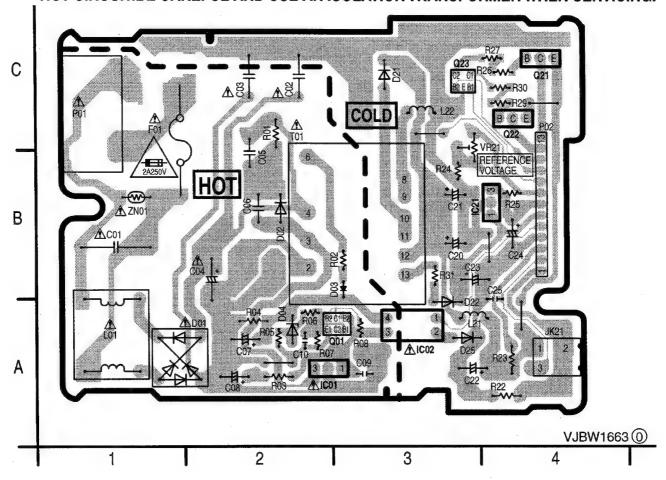
IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED BY THE SIGN A HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE:
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST FOR PROPER PARTS CONTENT.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLASE ONLY WITH THE SAME TYPE <u>2A 250V</u> FUSE. ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D' INCENDIE N' UTILISERQUE DES FUSIBLE DE MÉME

				AC MAI	N C.B.A.				
integrated (Circuit	D22	A-4	C04	B-2	Resistor		R29	C-4
IC01	A-3	D25	A-4	C05	B-2	R01	C-2	R30	C-4
IC02	A-3	Connector		C06	B-2	R02	B-3	R31	B-3
IC21	B-4	P01	C-1	C07	A-2	R03	A-2	Variable Res	istor
Transistor		P02	B-4	C08	A-2	R04	A-2	VR21	B-4
Q01	A-3	Jack		C09	A-3	R05	A-2	Fuse	
Q21	C-4	JK21	A-4	C10	A-2	R06	A-3	F01	C-1
Q22	C-4	Coil		C20	B-4	R07	A-3	Transforme	,
Q23	C-4	L01	A-1	C21	B-4	R08	A-3	T01	C-2
Diode		L21	A-4	C22	A-4	R22	A-4		
D01	A-2	L22	C-3	C23	B-4	R23	A-4		
D02	B-2	Capacitor		C24	B-4	R24	B-3		1
D03	A-3	C01	B-1	C25	A-4	R25	B-4		
D04	A-2	C02	C-2	1		R26	C-4		
D21	C-3	C03	C-2	1		R27	C-4		
ADDRESS II	VFORMATI	ON							

HOT CIRCUIT.BE CAREFUL AND USE AN ISOLATION TRANSFORMER WHEN SERVICING.



AC MODULE C.B.A. VEPW1664A1

NOTE:

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION, PAGE 4-1.

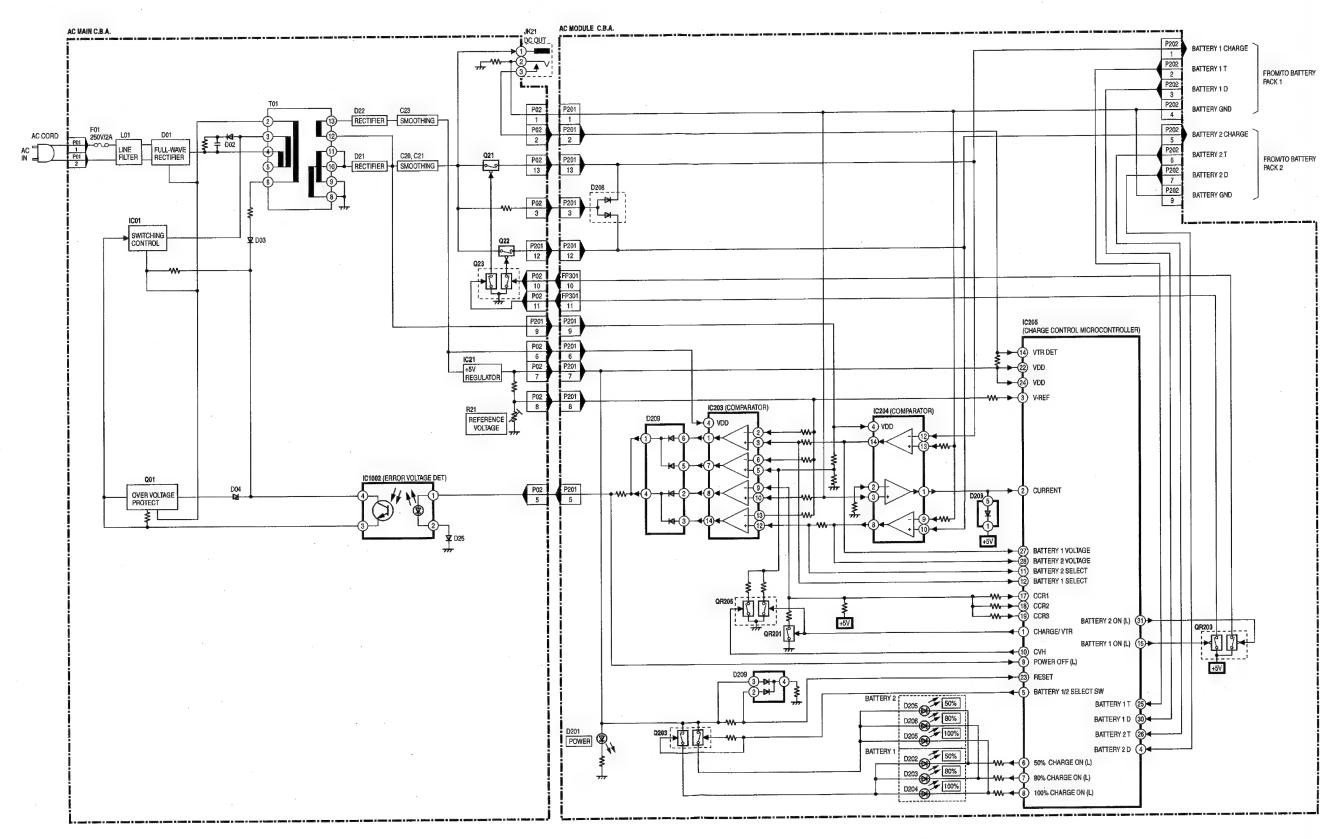
NOTE:
CIRCUIT BOARD LAYOUT INCLUDES COMPONENTS WHICH ARE NOT USED.
PLEASE REFER TO THE SCHEMATIC DIAGRAM AND PARTS LIST FOR PROPER PARTS CONTENT.

				AC MODU	LE C.B.A.				
Integrated C		Connector		C223	B-2	R219	A-1	R249	A-2
IC203	A-2	P201	C-1	C224	C-3	R220	B-2	R250	A-2
IC204	B-2	P202	C-1	C225	C-3	R221	B-2	R251	
IC205	A-3	Capacitor		C226	C-4	R222	B-2	R252	A-4 A-3
Transistor		C202	A-1	C227	B-3	R223	B-2	R253	A-3 A-2
Q203	C-2	C203	A-2	C228	A-4	R224	B-1	R254	
QR201	B-2	C204	B-2	Resistor		R225	B-2		B-3
QR203	B-3	C205	A-1	R201	C-3	R226	B-1	R255 R256	B-3
QR205	A-3	C206	A-2	R202	B-4	R227	B-2	R257	B-2
Diode		C207	A-1	R203	B-4	R228	B-2		B-2
D201	C-2	C208	B-1	R204	B-4	R229	B-1	R258	B-2
D202	C-1	C209	B-3	R205	C-2	R230	B-2	R259	B-2
D203	C-2	C210	B-3	R206	C-3	R231	C-2	R260	B-3
D204	C-2	C211	A-3	R207	B-1	R232	B-2	R261	C-4
D205	C-3	C212	A-3	R208	B-1	R233		R263	C-3
D206	C-3	C213	B-3	R210	A-2	R234	B-2	R265	A-4
D207	C-4	C214	B-3	R211	A-2	R239	A-2	R264	A-4
D208	C-1	C215	B-3	R212	A-2	R240	C-1	R266	A-4
D209	A-1	C216	B-3	R213	B-2	R240	B-2	R267	B-1
D210	B-2	C217	B-3	R214	A-2		C-3	R268	B-1
D211	C-1	C219	C-2	R215	A-2 A-2	R242	B-2	R270	B-1
D212	C-3	C220	B-1	R216	A-2 A-2	R243	B-3		
D215	C-3	C221	C-1	R217		R244	A-3		l
D216	B-4	C222	C-1	R217	A-2	R245	A-3		
DDRESS IN			ا-ت	nz i8	A-2	R246	A-3		

C В VJBW1664 (0) 2 3

BLOCK DIAGRAM

AC ADAPTOR BLOCK DIAGRAM



REPLACEMENT PARTS LISTS

BEFORE REPLACING PARTS, READ THE FOLLOWING:

REPLACEMENT NOTES

General Notes

1. Use only original replacement parts: To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list.

2. IMPORTANT SAFETY NOTICE

Components identified by the sign A have special characteristics important for safety. When replacing any of these components, use only the specified parts.

3. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DE-VICES" section of this service manual.

4. Parts with no Ref. No. in "EXPLODED VIEW" are not supplied. And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the

parts list.
5. Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.

Electrical Replacement Notes

- 1. Item numbers with capital letter E (Example: E1, E2,...) in the Ref. No. column are shown in the exploded views. The E item numbers are also printed on the same page at the top of the column.
- 2. The parts with "" mark are supplied individually or as a
- Unless otherwise specified:

All resistors are in ohms, 1/4W, +/-5%, carbon, K = 1,000 ohm, M = 1,000 kohm.

All capacitors are in microfarads, P = micromicrofarad, +/-10%.

All coils are in microhenries, M = 1,000 microhenry, +/-10%.

4. Abbreviation

RTL: Retention Time Limited

This indicates that the retention time is limited for this item. After the discontinuation of this item in production, it will no longer be available.

NR: Non Repairable Board Ass'y

MGF CHIP: Metal Glaze Film Chip

C CHIP: Ceramic Chip
COMPLX CMP: Complex Component

W FLMPRF: Wirewound Flameproof C.B.A.: Circuit Board Assembly

P.C.B.: Printed Circuit Board

E.S.D.: Electrostatically Sensitive Devices
5. SERVICE OF CHIP PARTS

When servicing chip parts, please use a soldering iron of less than 30 watts. Refer to "IC, TRANSISTOR AND CHIP PART INFORMATION" page.

6. The parts with "

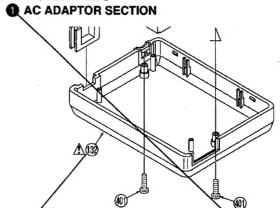
" are 0 ohm resistor. When replacing,

a wire can be substituted for a 0 ohm resistor.

MECHANICAL REPLACEMENT PARTS LIST

<The complete Exploded Views are shown in this manual.>

EXPLODED VIEWS



Ref. No.	Part No.	Part Name	Remarks
		NEOVIANION DARTO O	1 0114 0010
		MECHANISM PARTS O	
			(Section No.)
107	VSQW004Z	JACK BOX	2
108	VJAW0042	DC CABLE W/PLUG	2
109	VJAW0044	AC CABLE W/PLUG	<u> </u>
121	VQTW0735	INSTRUCTION BOOK	2
122 123	VPGW0746 VPGW0743	AC PAD	2
131	VYKW3123	PACKING CASE, PAPER	2
132	VKM4877	TOP CASE UNIT	1
133	VGQS1016	BOTTOM CASE, ABS RESIN BLIND PIECE	<u>A</u> 1
134	VWZS0022	SILICONE TUBE	1
			1
135	VQLW2036	AC CAUTION LABEL	
137	VMZW0663	TOP BARRIER	<u> </u>
138	VMZW0664	BOTTOM BARRIER	<u>A</u> 1
139	VSCW0949	AC SHIELD CASE, STEEL	1
		SCREWS	
	-	SCHEWS	
401	VTD2.0057	TARRENC CORP. CTC.	1
411	XTB2+8GFZ XQN2+CG6FZ	TAPPING SCREW, STEEL	1
		SCREW, STEEL	
412	XTB26+6G	TAPPING SCREW, STEEL	1
	-		
	<u> </u>		
	1		
	1		

ELECTRICAL REPLACEMENT PARTS LIST

(E51, E52)

Ref. No.	Part No.	Part Name	Remarks
		PRINTED CIRCUIT BOARD AS	SEMBI V
E51	VEPW1663A1	AC MAIN C.B.A.	
E52	VEPW1664A1	AC MODULE C.B.A.	E.S.D. RTL
LJE	VERNITOOTAL	AC MODULE C.B.A.	■ E.S.D. RTL
		AC MAIN C.B.A.	
		INTEGRATED CIRCUITS	
IC01	MIP0ZZ4SY	IC, CHOS STANDARD LOGIC	⚠ E.S.D.
		SWITCHING CONTROL	
ICØZ	PC817AB	IC, LINEAR ERROR VOLTAGE DET	Δ
IC21	OR PS2501-1W UPC78N05H	IC, LINEAR ERROR VOLTAGE DET	Δ
1(21	UPCZBNOSH	IC, LINEAR +5V REGULATOR	
		TRANSISTORS	
Q01	XN4601	COMPLX CMP SI NPN/PNP CHIEP	
Q21	2SA1897-TK	The same of the same	
QZZ	2SA1897-TK		
QZ3	XN1214	COMPLX CMP SI NPN CHIP	
		DIODES	
DØ1	S1WBA60S		Δ
002	ERA22-08V5		
DØ3	MA115	CHIP	
004	MA4270-M	ZENER 27V	
021	F5KQ100		
022	MA185		
163	MA165		
		SURGE ABSORBER	
N01	ERZVA5D471	SURGE ABSORBER	Δ.
		THE PERMIT	try .
		RESISTORS	
RØ1	ERG2SJ683E	METAL OXIDE 2W 68K	
102	ERJ8GEYJ330V	MGF CHIP 1/8W 33	W-14
103	ERDS2TJ22Ø	22	
104	ERDS2TJ272	2.7K	
106	ERJ6GEYJ473V	MGF CHIP 1/10W 47K	
	ERJ6GEYJ472V	MGF CHIP 1/19W 4.7K	
08	ERJ6GEYJ10ZV	MGF CHIP 1/10W 1K	
	ERX1SZGR10E ERG2SJ151E	METAL FILM 1W 0.1	
	ERJ6GEYJ51ZV	METAL OXIDE 2W 150 MGF CHIP 1/10W 5.1K	
	ERJ6GEYJ512V	MGF CHIP 1/10W 5.1K MGF CHIP 1/10W 1.5K	
	ERJ8GEYJ151V	MGF CHIP 1/8W 1.50	
	ERJ8GEYJ151V	MGF CHIP 1/8W 150	
	ERJ8GEYJ151V	MGF CHIP 1/8W 150	
	ERJ8GEYJ151V	MGF CHIP 1/8W 150	
	ERJ8GEYJ3R3V	MGF CHIP 1/8W 3.3	***************************************
		-	
		RESISTOR VARIABLES	
R21	EVMEASA00B14	VARIABLE 10K	
1			
		CAPACITORS	
04	COMPA CONT	WIN VECTED . 700 A AAT	
	ECQUZA473MG	POLYESTER +-20% 0.047	The state of the s
	OR ECQUZA473MGA	POLYESTER +-20% 0.047	Δ
02	OR ECQUZA473MGA ECKATS102ME	POLYESTER +-20% 0.047 CERAMIC +-20% 250V 1000P	Δ Δ
02 03	OR ECQUZA473MGA ECKATS102ME ECKATS102ME	POLYESTER +-20% 0.047 CERAMIC +-20% 250V 1000P CERAMIC +-20% 250V 1000P	Δ Δ Δ
02 03 04	OR ECQUZA473MGA ECKATS102ME ECKATS102ME ECA2GG330Z	POLYESTER +-20% 0.047 CERAMIC +-20% 250V 1000P CERAMIC +-20% 250V 1000P ELECTROLYTIC 400V 33	Δ Δ Δ
02 03 04 05	OR ECQUZA473MGA ECKATS10ZME ECKATS10ZME ECAZGG330Z ECQEZ104KF	POLYESTER +-20% 0.047 CERAMIC +-20% 250V 1000P CERAMIC +-20% 250V 1000P ELECTROLYTIC 400V 33 POLYESTER 250V 0.1	Δ Δ Δ
02 03 04 05 06 06	OR ECQUZA473MGA ECKATS10ZME ECKATS10ZME ECA2GG330Z ECQE2104KF ECCZ3A270KG	POLYESTER +-20% 0.047 CERAMIC +-20% 25eV 1000P CERAMIC +-20% 25eV 1000P ELECTROLYTIC 40eV 33 POLYESTER 25eV 0.1 CERAMIC 1KV 27P	Δ Δ Δ
02 03 04 05 06	OR ECQUZA473MGA ECKATS102ME ECKATS102ME ECA2GG330Z ECQEZ104KF ECCZ3A270KG ECA1HHG3R3B	POLYESTER +-20% 0.047 CERAMIC +-20% 250V 1000P CERAMIC +-20% 250V 1000P CERAMIC +-20% 250V 1000P SELECTROLYTIC 400V 33 POLYESTER 250V 0.1 CERAMIC 1KV 27P ELECTROLYTIC 50V 3.3	Δ Δ Δ
22 23 24 25 26 27 28 28	OR ECQUZA473MGA ECKATS102ME ECKATS102ME ECKATS10ZME ECA2GG330Z ECQE2104KF ECCZ3A270KG ECA1HHG3R3B ECA1VHG470	POLYESTER +-20% 0.047 CERAMIC +-20% 250V 1000P CERAMIC +-20% 250V 1000P ELECTROLYTIC 400V 33 POLYESTER 250V 0.1 CERAMIC 1KV 27P ELECTROLYTIC 50V 3.3 ELECTROLYTIC 35V 47	Δ Δ Δ
22 23 24 24 25 25 26 27 28 29 29 29 29 29 20 20 20	OR ECQUZA473MGA ECKATS102ME ECKATS102ME ECA2GG330Z ECQE2104KF ECCZ32A70KG ECA1HHG3R3B ECA1VHG470 ECUV1H102KBN	POLYESTER +-20% 0.047 CERAMIC +-20% 250V 1000P CERAMIC +-20% 250V 1000P ELECTROLYTIC 400V 33 POLYESTER 250V 0.1 CERAMIC 1xV 27P ELECTROLYTIC 50V 3.3 ELECTROLYTIC 35V 47 C CHIP 50V 1000P	Δ Δ Δ
22 1 33 1 44 1 35 1 66 1 77 1 88 1 99 1	OR ECQUZA473MGA ECKATS102ME ECKATS102ME ECKATS10ZME ECA2GG330Z ECQE2104KF ECCZ3A270KG ECA1HHG3R3B ECA1VHG470	POLYESTER +-20% 0.047 CERAMIC +-20% 250V 1000P CERAMIC +-20% 250V 1000P ELECTROLYTIC 400V 33 POLYESTER 250V 0.1 CERAMIC 1KV 27P ELECTROLYTIC 50V 3.3 ELECTROLYTIC 35V 47	Δ Δ Δ

(E61, E62, E63)

	D. Part No.	Part Name	Remarks
C20	EEUFC1C681L	ELECTROLYTIC 16V 68	9
C21	EEUFC1C681L	ELECTROLYTIC 16V 68	
CZZ	ECA1CHG471B	ELECTROLYTIC 16V 47	
C23	ECA1HHG330	ELECTROLYTIC 50V 3	
C24	EEAGA1C100B	ELECTROLYTIC 16V 1	
C25	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.	
			*
		COILS	-
L01	ELF15N004A		5 Д
L21	VLP0137-T	FERRITE BEAD) A
L22	VLP0056-T	FERRITE BEAD	
	12,0050-1	PERMITE BEAD	
		PIN HEADERS	
P01	VJSW0032	AC SOCKET	
P02	VJWSDQBØ89MM	CONNECTOR CORD W/OUT PLUG	Δ
	15H3PQB000FFI	CONNECTOR CORD NOOT PEDG	
		FUSE & PROTECTOR	
FØ1	VSFW0012		A
	43140617	FUSE 250V 2A	Δ
		 	
		TRANSCORMER	
TØ1	ETEZ7K41AY	TRANSFORMER	A
197	EIELINATAI	SWITCHING TRANSFORMER	Δ
		I LOKO	
1K21	V130F76	JACKS	
JK21	VJJ0576	DC JACK SOCKET	
	-	+	
		MOOFILATIONS	
		MISCELLANEOUS	
E61	V5CW0948	HEAT SINK	
E6Z	XTB26+6G	TAPPING SCREW, STEEL	
E63	VSC4744	HEAT SINK	
		AC MODULE C.B.A.	

		INTEGRATED CIRCUITS	
		MICOUNTED CINCOIL2	
C203	NJM2902M-TE1		
CZ03	NJM2902M-TE1 NJU7034M-TE1	IC, LINEAR COMPARATOR	E.S.D.
CC204	NJU7034M-TE1	IC, LINEAR COMPARATOR IC, CMOS STANDARD LOGIC OP AMP	E.S.D.
CC204		IC, LINEAR COMPARATOR IC, CMOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER	E.S.D. E.S.D.
C204	NJU7034M-TE1	IC, LINEAR COMPARATOR IC, CMOS STANDARD LOGIC OP AMP	
CC204	NJU7034M-TE1	IC, LINEAR COMPARATOR IC, CMOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER	
CC204	NJU7034M-TE1	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL	
CC204 CC205	NJU7034M-TE1 LU5K6B84	IC, LINEAR COMPARATOR IC, CMOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS	
CC204	NJU7034M-TE1	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL	
CC204 CC205	NJU7034M-TE1 LU5K6B84	IC, LINEAR COMPARATOR IC, CMOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS	
CC204 CC205	NJU7034M-TE1 LU5K6B84	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 4BIT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP	
CC204 CC205	NJU7034M-TE1 LU5K6B84 XN4601	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR	
CC294 CC295 2203	NJU7034M-TE1 LUSK6884 XN4601	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP	
CC204 CC205 CC205 CC203	NJU7034M-TE1 LU5K6884 XN4601 UNZZ11 XM1114	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP	
CC204 CC205 CC205 CC203	NJU7034M-TE1 LUSK6884 XN4601	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP	
(C204 (C205 (203 (203 (R201 (R203	NJU7034M-TE1 LU5K6884 XN4601 UNZZ11 XM1114	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP	
CC204 CC205 CC205 CC203	NJU7034M-TE1 LU5K6884 XN4601 UNZZ11 XM1114	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI NPN CHIP	
CC204 CC205 CC205 CC203	NJU7034M-TE1 LU5K6884 XN4601 UNZZ11 XM1114	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP	
(C204 (C205 (203 (203 (R201 (R203 (R205	NJU7034M-TE1 LU5K6884 XN4601 UNZZ11 XM1114	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI NPN CHIP	
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R201 R205 R201 R203 R205	NJU7034M-TE1 LU5K6884 XN4601 UN2211 XN1114 XN1211 LN276RPX2U	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI NPN CHIP DIODES LED CHIP RED	
R201 R205 R201 R203 R205	NJU7034M-TE1 LUSK6884 XN4601 UN2211 XN1114 XN1211 LN276RPX2U LN376GPXV	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI NPN CHIP DIODES LED CHIP RED LED CHIP GREEN	
R201 R203 R201 R203 R205	NJU7034M-TE1 LUSK6884 XN4601 UN2Z11 XN1114 XN1211 LN276RPX2U LN376GPXV LN376GPXV	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP DIODES LED CHIP RED LED CHIP GREEN LED CHIP GREEN	
R201 R203 R201 R203 R205	NJU7034M-TE1 LUSK6884 XN4601 UN2211 XM1114 XM1211 LN276RPXZU LN376GPXV LN376GPXV LN376GPXV	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI NPN CHIP DIODES LED CHIP RED LED CHIP GREEN LED CHIP GREEN LED CHIP GREEN LED CHIP GREEN	
R201 R203 R201 R203 R205	NJU7034M-TE1 LUSK6884 XN4601 UN2211 XN1114 XN1211 LN276RPX2U LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI NPN CHIP COMPLX CMP SI NPN CHIP DIODES LED CHIP RED LED CHIP GREEN	
R201 R203 R201 R203 R205 R205 R205 R205 R205 R205 R205 R205	NJU7034M-TE1 LUSK6884 XN4601 UN2211 XN1114 XN1211 LN276RPX2U LN376GPXV	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI NPN CHIP DIODES LED CHIP GREEN	
CC204 CC205	NJU7034M-TE1 LUSK6884 XN4601 UN2Z11 XN1114 XN1211 LN276RPXZU LN376GPXV DAP202KT	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP LED CHIP GREEN	
ICC94 ICC95 ICC95 ICC95 ICC95 ICC93 ICC9 ICC9	NJU7034M-TE1 LUSK6884 XN4601 UN2211 XM1114 XM1211 LN276RPX2U LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV DAP202KT OR MA151WA	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI NPN CHIP DIODES LED CHIP RED LED CHIP GREEN CHIP	
ICC94 ICC95 ICC95 ICC95 ICC95 ICC93 ICC9 ICC9	NJU7034M-TE1 LUSK6884 XN4601 UNZZ11 XN1114 XN1211 LN276RPXZU LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV CN376GPXV LN376GPXV LN376GPXV	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI NPN CHIP DIODES LED CHIP RED LED CHIP GREEN CHIP	
ICC94 ICC95 ICC95 ICC95 ICC95 ICC93 ICC9 ICC9	NJU7034M-TE1 LUSK6884 XN4601 UN2211 XM1114 XN1211 LN276RPX2U LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV DAP08VT DAP08VT OR MA151WA OR MA152WA OR MA152WA	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI NPN CHIP DIODES LED CHIP RED LED CHIP GREEN CHIP	
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R201 R203 R201 R203 R205 R205 R205 R205 R206 R207 R208 R205	NJU7034M-TE1 LUSK6884 XN4601 UNZZ11 XN1114 XN1211 LN276RPXZU LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV CN376GPXV CN376GPXV	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP CMP GREEN LED CHIP GREEN LED CHIP GREEN LED CHIP GREEN LED CHIP GREEN CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
R201 R203 R201 R203 R205 R205 R205 R205 R206 R207 R208 R205	NJU7034M-TE1 LUSK6884 XN4601 UN2211 XM1114 XM1211 LN276RPX2U LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV DAP202KT OR MA151WA OR MA152WA OR MA152WA OR M125WAI MM128	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI NPN CHIP DIODES LED CHIP GREEN CHIP	
R201 R203 R201 R203 R205 P202 P204 P205 P206 P207 P208	NJU7034M-TE1 LUSK6884 XN4601 UNZZ11 XN1114 XN1211 LN276RPXZU LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV CN376GPXV CN376GPXV	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI NPN CHIP DIODES LED CHIP RED LED CHIP GREEN CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	
ICC94 ICC95 ICC95 ICC95 ICC95 ICC93 ICC9 ICC9	NJU7034M-TE1 LUSK6884 XN4601 UN2211 XN1114 XN1211 LN276RPX2U LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV DAP20KT OR MA151WA OR MA152WA OR MA152WA MA128 MA3068 MA3068	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI PNP CHIP COMPLX CMP SI NPN CHIP DIODES LED CHIP RED LED CHIP GREEN CHIP CHIP	
R203 R201 R203 R201 R203 R205 201 202 203 204 205 206 207 208	NJU7034M-TE1 LUSK6884 XN4601 UNZZ11 XN1114 XN1211 LN276RPX2U LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV LN376GPXV DAP202KT OR MA151WA OR MA15ZWA OR M15ZWAI OR M1MA15ZWAI MA128 MA128 MA3068 MA3068	IC, LINEAR COMPARATOR IC, CHOS STANDARD LOGIC OP AMP IC, 48IT MICROCONTROLLER CHARGE CONTROL TRANSISTORS COMPLX CMP SI NPN/PNP CHIP TRANSISTOR RESISTOR CHIP COMPLX CMP SI NPN (HIP DIODES LED CHIP RED LED CHIP GREEN CHIP CHIP	

(E58)

RESISTORS	SIS TEM NUMBERS CAL PARTS LIST
READE READEST13619 MF CHIP	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
R283	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
E2896 E396E71351V MF CHIP	9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1
R205 RENGETY1311	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
R2056 RENGETY392V MF CUTP	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
R228	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 EM NUMBERS CAL PARTS LIST MATION
R288	0.1 0.1 0.1 0.1 0.1 0.1 EM NUMBERS CAL PARTS LIST MATION
R219	0.1 0.1 0.1 0.1 SSIS EM NUMBERS CAL PARTS LIST MATION RTL
RE211	0.1 0.1 SSIS EM NUMBERS CAL PARTS LIST MATION
R212 VRISDB039981 MGF CHIP +0.5% 1/16W 3.0K	0.1 SISS TEM NUMBERS CAL PARTS LIST MATION
R214	SIS SIS TEM NUMBERS CAL PARTS LIST MATION RTL
R215 R336FY1322V MGF CHIP	SIS TEM NUMBERS CAL PARTS LIST MATION RTL
PIN HEADERS	SIS TEM NUMBERS CAL PARTS LIST MATION RTL
R216	SIS TEM NUMBERS CAL PARTS LIST MATION RTL
R215 ENJSE(PJ)332V MGF CHIP	SIS TEM NUMBERS CAL PARTS LIST MATION RTL
R218	SIS TEM NUMBERS CAL PARTS LIST MATION RTL
R229 R336F21422V MGF CHIP	SIS TEM NUMBERS CAL PARTS LIST MATION RTL
R220	SIS TEM NUMBERS CAL PARTS LIST MATION RTL
R221	TEM NUMBERS CAL PARTS LIST MATION RTL
R222	CAL PARTS LIST MATION RIL
R223 ER33GEY3472V MGF CHIP 1/16W 4.7K R224 VRJSD6D4702 MGF CHIP +0.5% 1/10W 47K R225 VRJSD6D4702 MGF CHIP +0.5% 1/10W 47K R226 VRJSD6D4702 MGF CHIP +0.5% 1/10W 47K R227 VRJSD3D10603 MGF CHIP +0.5% 1/10W 47K R228 R33GEY3472V MGF CHIP 1/10W 4.7K R229 VRJSD6D4702 MGF CHIP +0.5% 1/10W 47K R220 VRJSD6D4702 MGF CHIP +0.5% 1/10W 4.7K R230 VRJSD6D4702 MGF CHIP +0.5% 1/10W 47K R231 VRJSD6D4702 MGF CHIP +0.5% 1/10W 40K R231 VRJSD6D4702 MGF CHIP +0.5% 1/10W 40K R233 ER36GEY3472V MGF CHIP +0.5% 1/10W 40K R233 ER36GEY3472V MGF CHIP 1/10W 4.7K R233 ER36GEY3472V MGF CHIP 1/10W 4.7K R234 R3GSGY302V MGF CHIP 1/10W 4.7K R239 ER36GEY3102V MGF CHIP 1/10W 10K R239 ER36GEY3102V MGF CHIP 1/10W 10K R240 VRJSD6D1002V MGF CHIP 1/10W 10K R241 VRJSD6D1002V MGF CHIP 1/10W 10K R242 ER33GEY3103V MGF CHIP 1/10W 10K R243 ER36GEY3122V MGF CHIP 1/10W 10K R244 ER36GEY3122V MGF CHIP 1/10W 10K R245 ER33GEY3103V MGF CHIP 1/10W 10K R246 ER36GEY3103V MGF CHIP 1/10W 10K R247 R248 R248 ER3GGEY3103V MGF CHIP 1/10W 10K R248 ER3GGEY3103V MGF CHIP 1/10W 10K R249 VRJSD3D10603V MGF CHIP 1/10W 10K R240 VRJSD3D30402 MGF CHIP 1/10W 10K R241 VRJSD6D1002V MGF CHIP 1/10W 10K R242 ER3GGEY3103V MGF CHIP 1/10W 10K R243 ER3GGEY3103V MGF CHIP 1/10W 10K R244 ER3GGEY3103V MGF CHIP 1/10W 10K R245 ER3GGEY3103V MGF CHIP 1/10W 10K R246 ER3GGEY3103V MGF CHIP 1/10W 10K R247 VRJSD3D10603V MGF CHIP 1/10W 10K R248 VRJSD3D30402 MGF CHIP 1/10W 10K R251 VRJSD6D5001 MGF CHIP 1/10W 10K R252 ER3GGEY303V MGF CHIP 1/10W 14X R253 ER3GGEY303V MGF CHIP 1/10W 14X R254 VRJSD6D5001 MGF CHIP 1/10W 14X R255 ER3GGEY347ZV MGF CHIP 1/10W 14X R256 ER3GGEY347ZV MGF CHIP 1/10W 14X R257 ER3GGEY347ZV MGF CHIP 1/10W 14X R258 ER3GGEY347ZV MGF CHIP 1/10W 14X R259 ER3GGEY347ZV MGF CHIP 1/10W 14X R250 ER3GGEY347ZV MGF	CAL PARTS LIST MATION RIL
R224	CAL PARTS LIST MATION RIL
REFER TO ELECTRIC Record REFER TO ELECTRIC Record Record	CAL PARTS LIST MATION RIL
R227	MATION
R228 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K ES1	RTL
R229	
R230	
R231	RTL
R232 VRJSD3D1003 MGF CHIP +-0.5% 1/16N 100K R233 ERJ6GEYJ472V MGF CHIP 1/10M 4.7K R234 ERJ3GEYJ103V MGF CHIP 1/16N 10K R239 ERJ8GEYJ122V MGF CHIP 1/8N 1.2K R240 VRJSD6D1002V MGF CHIP +-0.5% 1/10M 10K R241 VRJSD6D1002V MGF CHIP 1/10M 20K R242 ERJ3GEYJ222V MGF CHIP 1/10M 10K R244 ERJ3GEYJ222V MGF CHIP 1/10M 10K R244 ERJ3GEYJ222V MGF CHIP 1/10M 10K R245 ERJ3GEYJ103V MGF CHIP 1/10M 10K R246 ERJ3GEYJ103V MGF CHIP 1/16M 10K R246 ERJ3GEYJ103V MGF CHIP 1/16M 10K R247 VRJSD0D1003V MGF CHIP 1/16M 10K R248 ERJ3GEYJ103V MGF CHIP 1/16M 10K R249 VRJSD3D1003V MGF CHIP 1/16M 10K R249 VRJSD3D1003V MGF CHIP +-0.5% 1/16M 60K R250 VRJSD3D2402 MGF CHIP +-0.5% 1/16M 5.6K R251 VRJSD050601 MGF CHIP +-0.5% 1/16M 5.6K R252 ERJ6GEYJ433V MGF CHIP 1/10M 43K R253 ERJ6GEYJ102V MGF CHIP 1/10M 43K R254 VRJSD6D2702V MGF CHIP 1/10M 43K R255 ERJ6GEYJ472V MGF CHIP 1/10M 4.7K R256 ERJ3GEYJ472V MGF CHIP 1/10M 4.7K R257 ERJ3GEYJ103V MGF CHIP 1/10M 4.7K R258 ERJ3GEYJ103V MGF CHIP 1/10M 4.7K R259 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R250 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R251 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R252 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R253 ERJ3GEYJ472V MGF CHIP 1/10M 4.7K R254 ERJ3GEYJ472V MGF CHIP 1/10M 4.7K R255 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R256 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R257 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R258 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R259 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R250 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R251 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R252 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R253 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R256 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R257 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K R258 ERJ3GEYJ433V MGF CHIP 1/10M 4.7K	
R233 ERJ66EYJ472V MGF CHIP 1/10W 4.7K R234 ERJ3GEYJ103V MGF CHIP 1/16W 10K R239 ERJ8GEYJ102V MGF CHIP 1/16W 10K R240 VRJSD6D1002V MGF CHIP +-0.5% 1/10W 10K R241 VRJSD6D1002V MGF CHIP +-0.5% 1/10W 10K R242 ERJ3GEYJ224V MGF CHIP 1/16W 2.2K R243 ERJ3GEYJ224V MGF CHIP 1/10W 2.2K R244 ERJ3GEYJ103V MGF CHIP 1/10W 10K R245 ERJ3GEYJ103V MGF CHIP 1/10W 10K R246 ERJ3GEYJ103V MGF CHIP 1/10W 10K R247 VRJSD3D1603V MGF CHIP 1/10W 10K R248 VRJSD3D1603V MGF CHIP +-0.5% 1/10W 10K R249 VRJSD3D2402 MGF CHIP +-0.5% 1/16W 16K R250 VRJSD3D2402 MGF CHIP +-0.5% 1/16W 5.6K R251 VRJSD6D5001 MGF CHIP +-0.5% 1/10W 5.6K R252 ERJ3GEYJ43V MGF CHIP 1/10W 5.6K R253 ERJ3GEYJ43V MGF CHIP 1/10W 5.6K R254 VRJSD6D2702V MGF CHIP 1/10W 5.6K R255 ERJ3GEYJ472V MGF CHIP 1/10W 5.6K R256 ERJ3GEYJ472V MGF CHIP 1/10W 43K R257 ERJ3GEYJ43V MGF CHIP 1/10W 4.7K R258 ERJ3GEYJ472V MGF CHIP 1/10W 4.7K R259 ERJ3GEYJ472V MGF CHIP 1/10W 4.7K R250 ERJ3GEYJ472V MGF CHIP 1/10W 4.7K R251 ERJ3GEYJ472V MGF CHIP 1/10W 4.7K R252 ERJ3GEYJ472V MGF CHIP 1/10W 4.7K	
R234 ERJ3GEYJ103V MGF CHIP 1/16N 10K E63 VSC4744 HEAT SINK R239 ERJ8GEYJ122V MGF CHIP 1/8M 1.2K	
R239 ERJ8GEYJ122V MGF CHIP 1/8W 1.2K R240 VRJSD6D1002V MGF CHIP +-0.5% 1/10W 10K R241 VRJSD6D1002V MGF CHIP +-0.5% 1/10W 10K R242 ERJ3GEYJ224V MGF CHIP 1/16W 220K R243 ERJ6GEYJ222V MGF CHIP 1/10W 10K R244 ERJ6GEYJ103V MGF CHIP 1/10W 10K R245 ERJ3GEYJ103V MGF CHIP 1/10W 10K R246 ERJ6GEYJ103V MGF CHIP 1/10W 10K R249 VRJSD3D1603V MGF CHIP 1/10W 10K R250 VRJSD3D1603V MGF CHIP +-0.5% 1/16W 106K R251 VRJSD6D5601 MGF CHIP +-0.5% 1/16W 24K R252 ERJ6GEYJ433V MGF CHIP 1/10W 43K R253 ERJ6GEYJ433V MGF CHIP 1/10W 1K R254 VRJSD6D2702V MGF CHIP 1/10W 1K R255 ERJ6GEYJ102V MGF CHIP 1/10W 1K R256 ERJ6GEYJ102V MGF CHIP 1/10W 4.7K R257 ERJ3GEYJ103V MGF CHIP 1/10W 4.7K R258 ERJ3GEYJ103V MGF CHIP 1/10W 4.7K R259 ERJ3GEYJ103V MGF CHIP 1/16W 10K R259 ERJ3GEYJ103V MGF CHIP 1/10W 4.7K R251 ERJ3GEYJ103V MGF CHIP 1/10W 4.7K R252 ERJ3GEYJ103V MGF CHIP 1/10W 4.7K R253 ERJ3GEYJ103V MGF CHIP 1/10W 4.7K R254 URJSD6D2702V MGF CHIP 1/10W 4.7K R255 ERJ3GEYJ103V MGF CHIP 1/10W 4.7K R256 ERJ3GEYJ103V MGF CHIP 1/10W 4.7K R257 ERJ3GEYJ103V MGF CHIP 1/16W 10K R258 ERJ3GEYJ103V MGF CHIP 1/16W 4.7K R260 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K R260 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K R261 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K	
R240	1
R241 VRJSD6D1002V MGF CHIP +-0.5% 1/10M 10K R242 ERJ3GEYJ224V MGF CHIP 1/16M 220K R243 ERJ3GEYJ103V MGF CHIP 1/10M 1.0K R244 ERJ3GEYJ103V MGF CHIP 1/10M 10K R245 ERJ3GEYJ103V MGF CHIP 1/10M 10K R246 ERJ3GEYJ103V MGF CHIP 1/10M 10K R249 VRJSD3D1603V MGF CHIP 1/10M 10K R250 VRJSD3D2402 MGF CHIP +-0.5% 1/16M 160K R251 VRJSD6D5601 MGF CHIP +-0.5% 1/16M 5.6K R252 ERJ3GEYJ103V MGF CHIP 1/10M 1.0K R253 ERJ3GEYJ103V MGF CHIP 1/10M 1.0K R253 ERJ3GEYJ102V MGF CHIP 1/10M 1.0K R255 ERJ3GEYJ102V MGF CHIP 1/10M 1.0K R255 ERJ3GEYJ102V MGF CHIP 1/10M 1.0K R256 VRJSD3D2702V MGF CHIP 1/10M 1.0K R257 ERJ3GEYJ103V MGF CHIP 1/10M 1.0K R258 ERJ3GEYJ103V MGF CHIP 1/10M 1.0K R259 ERJ3GEYJ103V MGF CHIP 1/16M 1.0K R259 ERJ3GEYJ103V MGF CHIP 1/16M 1.0K R259 ERJ3GEYJ103V MGF CHIP 1/16M 1.0K R250 ERJ3GEYJ472V MGF CHIP 1/16M 4.7K R250 ERJ3GEYJ472V MGF CHIP 1/16M 4.7K R250 ERJ3GEYJ472V MGF CHIP 1/16M 4.7K	
R242 ERJ3GEYJ224V MGF CHIP 1/16N 220K R243 ERJ6GEYJ222V MGF CHIP 1/10N Z.ZK R244 ERJ6GEYJ103V MGF CHIP 1/10N 10K R245 ERJ3GEYJ103V MGF CHIP 1/16N 10K R246 ERJ3GEYJ103V MGF CHIP 1/16N 10K R249 VRJSD3D1603V MGF CHIP +-0.5% 1/16N 160K R250 VRJSD3D2402 MGF CHIP +-0.5% 1/16N 24K R251 VRJSD6D5601 MGF CHIP +-0.5% 1/16N 5.6K R252 ERJ3GEYJ103V MGF CHIP 1/10N 1K R253 ERJ3GEYJ102V MGF CHIP 1/10N 1K R254 VRJSD0D2702V MGF CHIP 1/10N 1K R255 ERJ3GEYJ102V MGF CHIP 1/10N 1K R256 ERJ3GEYJ472V MGF CHIP 1/10N 4.7K R257 ERJ3GEYJ472V MGF CHIP 1/10N 4.7K R258 ERJ3GEYJ103V MGF CHIP 1/16N 10K R259 ERJ3GEYJ472V MGF CHIP 1/16N 10K R259 ERJ3GEYJ472V MGF CHIP 1/16N 43K R250 ERJ3GEYJ472V MGF CHIP 1/16N 43K R250 ERJ3GEYJ472V MGF CHIP 1/16N 47K	
R243	
R245 ERJ3GEYJ103V MGF CHIP 1/16N 10K R246 ERJ6GEYJ103V MGF CHIP 1/10W 10K R249 VRJSD3D1603V MGF CHIP +-0.5% 1/16N 160K R250 VRJSD3D2402 MGF CHIP +-0.5% 1/16W 24K R251 VRJSD6D5601 MGF CHIP +-0.5% 1/10W 5.6K R252 ERJ6GEYJ433V MGF CHIP 1/10W 43K R253 ERJ6GEYJ432V MGF CHIP 1/10W 1K R254 VRJSD6D2702V MGF CHIP 1/10W 1K R255 ERJ6GEYJ472V MGF CHIP 1/10W 4.7K R256 ERJ6GEYJ472V MGF CHIP 1/10W 4.7K R257 ERJ3GEYJ103V MGF CHIP 1/16W 10K R258 ERJ3GEYJ103V MGF CHIP 1/16W 10K R259 ERJ3GEYJ103V MGF CHIP 1/16W 10K R259 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K R260 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K R260 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K R261 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K	
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R255 ERJ6GEYJ472V MGF CHIP 1/10W 4.7K R256 ERJ6GEYJ472V MGF CHIP 1/10W 4.7K R257 ERJ3GEYJ103V MGF CHIP 1/16W 10K R258 ERJ3GEYJ103V MGF CHIP 1/16W 10K R259 ERJ3GEYJ433V MGF CHIP 1/16W 43K R260 ERJ6GEYJ472V MGF CHIP 1/10W 4.7K R261 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K	
RZ56 ERJ6GEYJ47ZV MGF CHIP 1/10W 4.7K RZ57 ERJ3GEYJ103V MGF CHIP 1/16W 10K RZ58 ERJ3GEYJ103V MGF CHIP 1/16W 10K RZ59 ERJ3GEYJ433V MGF CHIP 1/16W 43K RZ60 ERJ3GEYJ47ZV MGF CHIP 1/10W 4.7K RZ61 ERJ3GEYJ47ZV MGF CHIP 1/16W 4.7K	
RZ57 ERJ3GEYJ103V MGF CHIP 1/16W 10K RZ58 ERJ3GEYJ103V MGF CHIP 1/16W 10K RZ59 ERJ3GEYJ433V MGF CHIP 1/16W 43K RZ60 ERJ6GEYJ472V MGF CHIP 1/10W 4.7K RZ61 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K	
R258 ERJ3GEYJ103V MGF CHIP 1/16W 10K R259 ERJ3GEYJ433V MGF CHIP 1/16W 43K R260 ERJ6GEYJ472V MGF CHIP 1/10W 4.7K R261 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K	
R259 ERJ3GEYJ433V MGF CHIP 1/16W 43K R260 ERJ6GEYJ472V MGF CHIP 1/10W 4.7K R261 ERJ3GEYJ472V MGF CHIP 1/16W 4.7K	
R260 ERJ6GEYJ472V MGF CHIP 1/10M 4.7K R261 ERJ3GEYJ472V MGF CHIP 1/16M 4.7K	
RZ61 ERJ3GEYJ47ZV MGF CHIP 1/16W 4.7K	
DOGO VENERADADO MAE CUTE LA EM 1/1/5m 4/0V	
R263 VRJSD3D1002 MGF CHIP +-0.5% 1/16W 10K	
RZ64 VRJSD3D1002 MGF CHIP +-0.5% 1/16W 10K	
RZ65 VRJSD6D7500V MGF CHIP +-0.5% 1/10W 750	
R266 VRJSD6D3301V MGF CHIP +-0.5% 1/10W 3.3K	
R267 VRJS0604702 MGF CHTP +-0.5% 1/10W 47K	
R268 VRJSD6D4702 MGF CHIP +-0.5% 1/10M 47K	, , , , , , , , , , , , , , , , , , , ,
CAPACITORS	
C202 ECUV1£104ZFN C CHIP +80%-20% 25V 0.1	
C203 ECUVIE104KBN C CHIP 25V 0.1	
C204 ECUVIEIO4KBN C CHIP 25V 0.1	
C205 ECUVIE104KBN C CHIP 25V 0.1	
C206 ECUVIE104KBN C CHIP 25V 0.1	
C207 ECUVICIOSZFN C CHIP +80%-20% 16V 1	
C208 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1	
C209 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1	
C210 ECUV1C224KBN C CHIP 16V 0.22	
C211 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1	
C212 ECUV1E104ZFN C CHIP +80%-20% 25V 0.1	
C213	
CZ14 ECUV1E104ZFN C CHIP +80%-20% Z5V 0.1	

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